

V4227

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Sean M. Rovito

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Sean M. Boyle

General Notes

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Sean M. Rovito

2009

Catalogue #738-974

Guatemala: El Quiche, Huehuetenango

Mexico: Chiapas, Oaxaca, Veracruz

Nicaragua: Granada, Jinotega, Leon,
Matagalpa, South Atlantic Autonomous
Region

Sean M. Brown

2003

Chapman University

Department of Business Administration

Mexico City, Mexico, Mexico

Michigan State University

Michigan State University

Region

Rovito, Sean
2009

Catalogue

Jan. 5 8.3 Km NE (by air) of Los Encuentros on CA-15 to Chichicastenango,
Depto. El Quiché, Guatemala
14.91602°N, 91.10331°W [WGS84, $\pm 9m$], 2064m elev.
SMR738 Bolitoglossa cuchumatana adult FF-liver 1/10/09
CRVA1665 " " adult ETOH-liver 1/10/09
SMR739 " " juv. FF-liver, intestine 1/9/09
CRVA1666 " " subadult ETOH-liver 1/9/09

Jan. 7 Finca dxcanán, 10.3 Km E (by rd) of Malambojoch on road to Rio Seco,
Mpio. San Mateo Chtatan, Depto. Huehuetenango, Guatemala
16.00544°N, 91.49985°W [WGS84, $\pm 3m$], 1692m elev.
CRVA1667 Bolitoglossa rufescens ETOH-liver 1/9/09
CRVA1668 Bolitoglossa juv. ETOH-liver ^{MVSH NAT} MVZ 1/9/09

16.00359°N, 91.50025°W [WGS84, $\pm 8m$], 1743m elev.
CRVA1669 Brachytriton silus adult FF RNA later ETOH-liver 1/10/09

16.00543°N, 91.50002°W [WGS84, $\pm 10m$], 1687m elev.
SMR740 Bolitoglossa hartwegi FF-liver 1/10/09
CRVA1670 Bolitoglossa ETOH-liver 1/9/09
SMR741 Bolitoglossa rufescens FF-liver ^{MVZ} 1/9/09
CRVA1671 Bolitoglossa ~~stuarti~~ cuchumatana juv. ETOH-liver 1/9/09
SMR742 Bolitoglossa lincolni FF-liver 1/10/09

16.00785°N, 91.50008°W [WGS84, $\pm 13m$], 1660m elev.
CRVA1672 Bolitoglossa ETOH-liver 1/9/09
SMR743 Bolitoglossa FF-liver " "
CRVA1673 Bolitoglossa ~~stuarti~~ cuchumatana juv. ETOH-liver also to MVZ

Rorato, Sean
2009

Catalogue

Finca Chxcansin, 13.2 km E (by road) of Malambojoch on road to Rio Seco, then 0.4 km S (by road) on road to Chaguenaal, Mpio. San Mateo Chxtatan, Depto. Huehuetenango, Guatemala

Jan. 7 16.00569°N, 91.48060°W [WGS84, ±6m], 1636m elev.

SMR744 Bolitoglossa ~~montana~~ ^{hartwegi}

FF-liver 1/10/09

Finca Chxcansin, 11.0 Km (by road) E of Malambojoch on road to Rio Seco, Mpio. San Mateo Chxtatan, Depto. Huehuetenango, Guatemala

Jan. 8 16.00565°N, 91.4⁹⁴⁹⁸~~000~~°W [WGS84, ±8m], 1641m elev.

SMR748 Bolitoglossa

FF-liver 1/10/09

SMR749 "

" "

SMR750 "

" "

SMR751 "

adult ♂

" "

CRVA1676 "

adult ♀

EtOH-liver 1/10/09

CRVA1677 "

" "

CRVA1678 "

adult ♂

" "

CRVA1679 "

adult ♂

" "

SMR745 Bradytriton silus adult

FF-liver 1/10/09

SMR746 " " adult ♀ taken alive to Berkeley

FF-liver Jan. 09

SMR747 " " adult

FF-liver 1/10/09

CRVA1674 " " adult

EtOH-liver 1/10/09

AJCP025 " " adult

EtOH-liver 1/10/09

CRVA1675 Bolitoglossa

adult ♂

EtOH-liver 1/9/09

16.00596°N, 91.49640°W [WGS84, ±10m], 1680m elev.

CRVA1680 Bradytriton silus adult

EtOH-liver 1/10/09

Wito, Sean
2009

Catalogue

Finca Ixcansán, ca. 10.8 Km E (by road) of Malambojoch on road to
Rio Seco, Mpio. San Mateo Ixcatan, Depto. Huehuetenango, Guatemala
Jan. 8 16.00738°N, 91.49640°W [WGS84, ±8m], 1663m elev.
CRVA1681 Bolitoglossa Etoh-liver 1/9/09

ca. 10.4 Km E (by rd) of Malambojoch
16.00647°N, 91.49852°W [WGS84, ±6m], 1678m elev.
SMR752 Bolitoglossa adult ♀ FF-liver 1/9/09

10.3 Km E (by rd) of Malambojoch
16.00614°N, 91.49988°W [WGS84, ±7m], 1647m elev.
SMR753 Bolitoglossa adult ♂ FF-liver 1/9/09

10.5 Km E (by rd) of Malambojoch
16.00791°N, 91.49858°W [WGS84, ±10m], 1666m elev.
CRVA1684 Bolitoglossa Etoh-liver 1/9/09

16.00647°N, 91.49995°W [WGS84, ±10m], 1654m elev.
SMR756 Bolitoglossa adult FF-liver 1/10/09
SMR757 Bolitoglossa adult FF-liver 1/9/09

3.8 Km (by rd) S of San Mateo Ixcatan on road to Huehuetenango,
Depto. Huehuetenango, Guatemala
Jan. 9 15.82178°N, 91.50019°W [WGS84, ±5m], 2864m elev.
CRVA1685 Sceloporus adult ♂ FF-liver 1/10/09
CRVA1686 " juv. " "
SMR758 " adult ♀ " "

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Rovito, Sean
2009

Catalogue

Rio Sancapech, ca. 1Km E of Bendición de Dios, Mpio.
Penton, Depto. Huehuetenango, Guatemala

Jan. 8

SMR754 Rana sauitanti

adult

FF - liver 1/10/09

CRVA1682 hyld

FF
EtOH - liver 1/10/09

SMR755 Plectrohyla

adult ♂

FF - liver 1/10/09

CRVA1683 "

adult ♂

EtOH - liver 1/9/09

ovito, Sean

2009

Catalogue

3.8 km S (by road) of San Mateo Cuxtatan on road to Huehuetenango,
Depto. Huehuetenango, Guatemala

Jan. 9

15.82178°N, 91.50019°W [WGS84, ± 5 m], 2864m elev.

SMR759 Bolitoglossa rostrata adult

FF-liver 1/10/09

SMR760

"

"

juv.

FF-whole animal 1/10/09

CRVA1687

"

"

juv.

EtOH-liver 1/9/09

CRVA1688

"

"

juv.

" " 1/9/09

CRVA1689

"

"

adult

" " 1/9/09

SMR761 Bufo bocourti adult

FF-liver 1/10/09

19.1 km from center of San Mateo Cuxtatan on road to Palagua, Depto.
Huehuetenango, Guatemala

Jan. 9

15.91048°N, 91.60310°W [WGS84, ± 8 m], 2629m elev.

SMR762 Bolitoglossa rostrata adult

FF-liver 1/9/09

SMR763

"

"

"

"

AJCP026

"

"

juv.

EtOH-liver 1/9/09

SMR764

Bolitoglossa lincolni

juv.

FF-liver 1/9/09

CRVA1691

"

"

juv.

EtOH-liver 1/9/09

CRVA1692

"

"

juv.

"

"

CRVA1690 Bolitoglossa hartwegi adult ♀

FF
EtOH-liver 1/9/09

2.8 km S (by rd) of Malambojoch on road to San Mateo Cuxtatan,
Depto. Huehuetenango, Guatemala

Jan. 7

15.96446°N, 91.56984°W [WGS84, ± 10 m], 1798m elev.

CRVA1693 Bufo bocourti adult

FF
EtOH-liver 1/10/09

- collected by Jack + Carla at bird net site

Rovito, Sean
2009

Catalogue

Jan. 10 Finca Ixcanson, 11.0 Km E (by rd) of Malamboch on road to Rio Seco,
Mpio. San Mateo Cuxtatan, Depto. Huehuetenango, Guatemala
16.06565°N, 91.49498°W [WGS84, ± 8m], 1641m elev.

TP30089	<u>Bradytriton</u> <u>silus</u>	adult	FF-liver
CRVA16936	<u>Craugastor</u> <u>rhodophilus</u>	adult ♀	FF EtOH-liver
SMR765	<u>Bolitoglossa</u>	adult ♀	FF-liver

Jan. 11 19.1 km (by road) from center of San Mateo Cuxtatan on road to Palagua,
Mpio. San Mateo Cuxtatan, Depto. Huehuetenango, Guatemala
15.91048°N, 91.60310°W [WGS84, ± 8m], 2629m elev.

SMR766	<u>Bolitoglossa</u> <u>lincolni</u>	subadult	FF-liver 1/12/09
SMR767	" "	juv.	" "
CRVA1694	" "	"	EtOH-liver 1/12/09
AJCP027	" "	"	" "
SMR768	<u>Bolitoglossa</u> <u>hortwegi</u>	adult ♀	FF-liver 1/12/09
CRVA1695	<u>Bolitoglossa</u> <u>rostrata</u>	subadult	EtOH-liver 1/12/09
CRVA1696	" "	adult ♀	" "
CRVA1697	" "	adult ♂	" "
SMR769	" "	adult ♀	FF-liver 1/12/09
SMR770	" "	juv.	" "
SMR771	" "	adult ♀	" "
SMR772	<u>Dendrobates</u> <u>"chrysom"</u>	adult ♀	RNALater FF-liver 1/13/09
SMR773	" "	adult ♂	FF-liver 1/13/09
SMR774	" "	juv.	FF-whole animal 1/13/09
CRVA1698	" "	adult ♀	EtOH-liver 1/13/09
CRVA1699	" "	juv.	" "
CRVA1700	" "	juv.	" "

Rovito, Sean
2009

Catalogue

19.1 km (by rd) from center of San Mateo Cistatan on road to Palaguan,
Mpio. San Mateo Cistatan, Depto. Huehuetenango, Guatemala

Jan. 11

15.91048°N, 91.60310°W [WGS84, ±8m], 2629m elev.

CRVA1701 Bolitoglossa rostrata adult ♂

EtOH-liver 1/13/09

SMR775 Bolitoglossa lincolni juv.

FF-liver 1/13/09

Aldea Las Palmas, on road from Malambogich to Nentón, 15.7 km NNE (by air)
of Nentón, Depto. Huehuetenango, Guatemala

Jan. 12

16.01626°N, 91.67728°W [WGS84, ±8m], 1313m elev.

CRVA1702 Kinosternon

FF
liver - 1/16/09

Montañas de
Pena Blanca

17.1 km (by road) from Colotenango - Cuico road, past San Francisco El
Retiro, Depto. Huehuetenango, Guatemala

Jan. 12

15.48462°N, 91.93250°W [WGS84, ±6m], 2974m elev.

SMR776 Sceloporus

adult ♀

FF-liver 1/13/09

CRVA1703 "

adult ♀

EtOH-liver 1/13/09

CRVA1704 "

adult ♂

"

"

SMR777 Mesaspis moreletii

FF-liver 1/13/09

CRVA1705 "

"

EtOH-liver 1/13/09

SMR778 Bolitoglossa morio subadult ♂

FF-liver 1/13/09

SMR779 "

"

"

juv.

"

"

SMR780 "

"

"

adult ♀

"

"

SMR781 "

"

"

juv.

FF-whole animal 1/13/09

CRVA1706 "

"

"

subadult ♀

EtOH-liver 1/13/09

CRVA1707 "

"

"

subadult ♂

"

"

CRVA1708 "

"

"

adult ♀

"

"

CRVA1709 "

"

"

juv.

"

"

Rivita, Sean
2009

Catalogue

17.1 km (by road) from Cotenango - Cúico road, past San Francisco El Retiro, Montañas de Peña Blanca, Depto. Huehuetenango, Guatemala

Jan. 12

15.48462°N, 91.93250°W [WGS84, ± 6 m], 2974 m elev.

SMR782	<u>Pseudoeurycea rex</u>	juv.	FF-tail	1/13/09
SMR783	"	juv.	FF-whole animal	1/13/09
CRVA1710	"	juv.	EtOH-liver	1/13/09
CRVA1711	"	juv.	"	"
SMR784	<u>Dendrotriton rabli</u>	adult ♀	RNALater FF	- liver 1/13/09
CRVA1712	"	adult ♀	EtOH	- liver 1/13/09
CRVA1713	"	adult ♂	"	"

11.6 km (by rd) from Cotenango - Cúico road, past San Francisco El Retiro, Montañas de Peña Blanca, Depto. Huehuetenango, Guatemala

Jan. 12

15.46194°N, 91.92931°W [WGS84, ± 6 m], 2812 m elev.

AJCP029	<u>Abronia</u>	adult ♀	FF EtOH-liver	1/13/09
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14.7 km (by road) from CA-1 at El Raposo

La Cumbre, high point on road from El Paraiso to Montañas de Cúico, Depto. Huehuetenango, Guatemala

Jan. 13

15.56129°N, 91.98414°W [WGS84, ± 6 m], 2240 m elev.

SMR785	<u>Anolis</u>	juv.	FF-liver	1/13/09
SMR786	<u>Bolitoglossa morio</u>	juv.	FF-liver	1/13/09
CRVA1714	"	juv.	EtOH-liver	1/13/09
CRVA1715	"	juv.	"	"
SMR787	<u>Bolitoglossa lincolni</u>	juv.	FF-liver	1/13/09
SMR788	"	juv.	"	"
CRVA1716	"	adult ♀	EtOH-liver	1/13/09

Rovito, Sean
2009

Catalogue

Finca Ixcanson, 10.3km E (by rd) of Malambojich on road to Rio Seco,
Mpio. San Mateo Ixcatan, Depto. Huehuetenango, Guatemala
16.0044°N, 91.4998°W [WGS 84, ±7m], 1647m elev.

Jan. 7 SMR789 Bolitoglossa rufescens adult FF-liver 1/16/09

- collected by Zach Hannah

Jan. 14 CRVA1717 Brachytriton silus adult EtoH-liver 1/16/09

rito, Sean
2009

Catalogue

Aug. 21 Hotel Hamacas, 100m from ferry dock, San Jorge, Depto. Rivas, Nicaragua
11.45873°N, 85.79194°W [WGS84, ± 8m], 39m elev.
SMR790 Hemidactylus frenatus adult RNALater-liver 8/24/09

Aug. 22 Humedal Istiam, 1.6Km SE (by road) of Playa Santo Domingo, c/sla Ometepe, Depto. Rivas, Nicaragua
11.49757°N, 85.54816°W [WGS84, ± 8m], 51m elev.
SMR791 Kinosternon scorpioides adult ♀ RNALater-liver 8/27/09
SMR792 " " adult ♀ " "
SMR793 Rana saillanti adult RNALater-liver 8/24/09
SMR794 Leptodactylus melanostictus adult ♀ " "
SMR795 Leptodactylus fragilis juv. " "
SMR796 Hendropsophus microcephalus adult ♂ " "
SMR797 Hemidactylus frenatus juv. RNALater-tail 8/24/09

Aug. 22 400m W (by rd) of Finca Magdalena on road to Balgüe, c/sla Ometepe, Depto. Rivas, Nicaragua
11.48360°N, 85.51302°W [WGS84, ± 7m], 125m elev.
SMR798 Engystomops pustulosus adult ♂ RNALater-liver 8/24/09
SMR799 " " adult ♂ " "
SMR800 " " adult ♂
SMR801 " " adult ♂
SMR802 " " adult ♂

100

100

100

100

Wito, Sean
2009

Catalogue

1.6 Km S (by air) of Finca Magdalena on trail to summit of Volcán
Maderas, Isla Ometepe, Depto. Rivas, Nicaragua

Aug. 23 11.46869°N, 85.50687°W [WGS84, ±9m], 466m elev.

SMR803 Graugastor lawraster subadult RNALater-liver 8/24/09

SMR804 " " subadult " "

SMR805 " " subadult ♂

SMR806 " " subadult

SMR807 " " subadult

SMR808 Graugastor fitzingeri adult ♂ RNALater-liver 8/24/09

SMR809 Sphenomorphus chiroi adult " "

SMR810 Anolis cupreus juv. " "

3.1 Km S (by air) of Finca Magdalena on trail to summit of Volcán
Maderas, Isla Ometepe, Depto. Rivas, Nicaragua

Aug. 23 11.45483°N, 85.50962°W [WGS84, ±8m], 1005m elev.

SMR811 Graugastor fitzingeri adult RNALater-liver 8/24/09

SMR812 " " adult ♀ " "

SMR813 " " adult

SMR814 Sphenomorphus chiroi juv. RNALater-liver 8/24/09

2.5 Km S (by air) of Finca Magdalena on trail to summit of Volcán
Maderas, Isla Ometepe, Depto. Rivas, Nicaragua

Aug. 23 11.46095°N, 85.50835°W [WGS84, ±9m], 782m elev.

SMR815 Graugastor fitzingeri adult RNALater-liver 8/24/09

10/10/10

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Warto, Sean
2009

Catalogue

Ecotel El Nivero, 3.2 km^W (by rd) of El Rama on road to Managua,
Región Autónoma del Atlántico Sur, Nicaragua

Aug. 25 12.18337°N, 84.24042°W [WGS84, ±8m], 34m elev.

SMR816 Bolitoglossa striatula adult ♀ RNALater - liver 8/27/09

SMR817 Anolis limifrons adult ♂ " "

SMR818 " " adult ♀ " "

SMR819 Xenotodes albugularis adult ♀ liver - RNALater 8/26/09

3.8 km^W (by rd) of El Rama on highway to Managua, Región
Autónoma del Atlántico Sur, Nicaragua

Aug. 25 12.18779°N, 84.24668°W [WGS84, ±10m], 38m elev.

SMR820 Rana forsteri adult ♀ RNALater - 8/26/09

7.0 km W (by rd) of El Rama on highway to Managua, Región
Autónoma del Atlántico Sur, Nicaragua

Aug. 25 12.19729°N, 84.27098°W [WGS84, ±10m], 46m elev.

SMR821 Bufo valliceps adult RNALater - liver 8/27/09

12.4 km W (by rd) of El Rama on highway to Managua, Región
Autónoma del Atlántico Sur, Nicaragua

Aug. 25 12.18716°N, 84.31721°W [WGS84, ±10m], 51m elev.

SMR822 Trachycephalus venulosus ~~adult~~ subadult RNALater - liver 8/27/09

SMR823 Scinax staufferi adult ♂ RNALater - liver 8/27/09

SMR824 " " adult ♂ " "

SMR825 " " adult ♂ " "

SMR826 Bufo valliceps adult RNALater - liver 8/26/09

analysis

1. The first part of the paper is devoted to a general discussion of the problem of the existence of a solution of the system of equations (1) for arbitrary values of the parameters α and β . It is shown that the system has a solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

Warto, Sean
2009

Catalogue

Kukra Hill boat dock, Región Autónoma del Atlántico Sur, Nicaragua

Aug. 26 12.23141°N, 83.74310°W [WGS84, ± 8 m], 21m elev.

SMR827 Smilisca baudinii adult RNA Later - liver 8/27/09

Aug. 27 SMR828 Hemidactylus frenatus adult " "

Finca las Flores, 1.5 km W (by air) of town of Kukra Hill, Región Autónoma del Atlántico Sur, Nicaragua

Aug. 27 12.24428°N, 83.75953°W [WGS84, ± 6 m], 69m elev.

SMR829 Bolitoglossa striatula adult RNA Later - liver 8/27/09

SMR830 Smilisca baudinii juv. " "

SMR831 Thrinacoselache adult " "

El Molino, Reserva Atlántico - El Diablo, Depto. Jinotega, Nicaragua

Aug. 29 13.15735°N, 85.82385°W [WGS84, ± 8 m], 1280m elev.

SMR832 Agalychnis callidryas adult ♂ tissue lost

SMR833 Rana brownorum juv. RNA Later - 8/30/09 liver

SMR834 Smilisca baudinii adult ♂ " "

13.17752°N, 85.88366°W [WGS84, ± 9 m], 1061m elev.

SMR835 Agalychnis callidryas adult ♀ RNA Later - 8/30/09

Universidad Centroamericana field station, Reserva ~~National~~ Atlántico - El Diablo, Depto. Jinotega, Nicaragua

Aug. 29 13.16898°N, 85.86063°W [WGS84, ± 8 m], 1160m elev.

SMR836 Anolis quezallus adult RNA Later - liver 8/30/09

SMR837 Bothriechus schlegelii adult ♀ " "

SMR838 Pristimantis ridens adult " "

Rovito, Sean
2009

Catalogue

Datanli

Aug. 30 El Mabrado, Reserva ~~Matagalpa~~ - El Diablo, Depto. Jinotega, Nicaragua
13.15534°N, 85.87111°W [WGS84, ± 8m], 1421m elev.

SMR839 Anolis cupreus adult RNALater - liver 8/30/09

SMR840 Anolis sp. juv. " "

SMR842 Oedipina sp. adult RNALater - ^{liver}intestine 8/30/09

SMR844 Craugastor lauraster adult RNALater - liver 8/30/09

13.15735°N, 85.82385°W [WGS84, ± 8m], 1280m elev.

SMR843 Bufo caxfer adult RNALater - liver 8/30/09

4.5 Km (by rd) from center of Matagalpa on road to Jinotega,
Depto. Matagalpa, Nicaragua

Aug. 30 12.95868°N, 85.91965°W [WGS84, ± 9m], 973m elev.

SMR841 Masticodytes dorsalis adult male DOR RNALater - liver 8/30/09

On road below centro de visitantes, Volcán Mombacho, Depto. Granada,
Nicaragua

Aug. 31 11.83558°N, 85.98174°W [WGS84, ± 7m], 1088m elev. extent: 500m

SMR845 Bolitoglossa mombachoensis adult ♀ RNALater - liver 9/1/09

SMR846 " " adult ♀

SMR847 " " adult

SMR848 " " adult

SMR849 " " adult

SMR850 " " adult

SMR851 " " adult

SMR852 " " subadult

10/10/10

1. The first part of the report is a general introduction to the project. It describes the purpose of the study and the objectives that have been set. It also outlines the scope of the work and the methods that will be used to collect and analyze the data.

2. The second part of the report is a detailed description of the data that has been collected. It includes a table of the data and a discussion of the characteristics of the sample.

3. The third part of the report is a discussion of the results of the analysis. It includes a table of the results and a discussion of the implications of the findings.

4. The fourth part of the report is a conclusion and a list of references.

1. The first part of the report is a general introduction to the project. It describes the purpose of the study and the objectives that have been set. It also outlines the scope of the work and the methods that will be used to collect and analyze the data.	2. The second part of the report is a detailed description of the data that has been collected. It includes a table of the data and a discussion of the characteristics of the sample.	3. The third part of the report is a discussion of the results of the analysis. It includes a table of the results and a discussion of the implications of the findings.	4. The fourth part of the report is a conclusion and a list of references.
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Rovito, Sean
2009

Catalogue

Aug. 31 On road below centro de visitantes, Volcán Mombacho, Depto. Granada, Nicaragua
11.83558°N, 85.98174°W [WGS84, ± 7 m], 1088m elev. extent: 500m

SMR855 Amelia baudini adult RNA Later - liver 9/1/09

SMR856 Anolis liporatus adult ♂ " "

SMR857 Anolis cypreus adult ♀ " "

11.83816°N, 85.98363°W [WGS84, ± 10 m], 950m elev.

SMR853 Craugastor fitzingeri adult RNA Later - liver 9/1/09

SMR854 Dendropsophus microcephalus adult " "

11.83922°N, 85.98447°W [WGS84, ± 9 m], 892m elev.

Sept. 1 SMR858 Coniophanes piceivittis adult RNA Later - liver 9/1/09

Sabalo Flaco, 22.2 km (by rd) from center of Granada on road to Malacatoya, then 2.8 km E (by boat) of town of Las Cocas, Lago de Nicaragua, Depto. Granada, Nicaragua

Sept. 2 12.09568°N, 85.86362°W [WGS84, ± 7 m acc.], 59m elev.

SMR859 Trachemys emoli adult ♂ ^{EtoH} RNA Later - liver 9/2/09

SMR860 " " adult ♀ " "

- two RNA Later liver samples and one EtoH sample of each turtle

Palermo, ca. 13.5 km (by rd) from center of León on road to Supaya beach, Depto. León, Nicaragua

Sept. 4 12.38752°N, 86.99112°W [WGS84, ± 11 m], 77m elev.

SMR861 Trachemys senusta adult ♂ ^{EtoH} RNA Later - liver 9/4/09

- left specimen in León

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Double-issued specimens (specimen to UNAN, tissue to MVZ)
same locality as SMR822

JS1390 Phascogaster eurizonus adult RNALater - liver 8/25/09

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2009

Catalogue

Las Lajas microwave station, 5.1 Km SW (by air) of Las Nigas,
Veracruz, Mexico

Nov. 13

19.59242°N, 97.09566°W [$\pm 6m$], 3127m elev.

SMR862 Pseudoeurycea leprosa subadult

RNA Later - liver 11/15/09

SMR863 " " juv.

RNA Later - whole animal 11/15/09

4.5 Km (by road) W of Las Nigas on road to Villa Alegre, Veracruz, Mexico

Nov. 13

19.60187°N, 97.12653°W [$\pm 6m$], 2746m elev.

SMR864 P. leprosa adult

RNA Later - liver 11/17/09

SMR865 " " adult

RNA Later - liver 11/15/09

SMR866 " " adult ♂

" "

SMR867 " " adult

RNA Later - liver 11/15/09

SMR868 " " adult

" "

SMR869 " " ~~juv~~ adult ♀

" "

SMR870 " " subadult

RNA Later - liver 11/15/09

SMR871 " " subadult

" "

SMR872 " " juv.

RNA Later - whole animal 11/15/09

0.9 Km S (by air) of Loma Alta microwave station, then 6.0 Km E (by rd)
of Chicanguaco, Veracruz, Mexico

Nov. 14

19.74724°N, 96.77407°W [$\pm 10m$], 2255m elev.

SMR873 Pseudoeurycea cephalica

juv. RNA Later - liver 11/17/09

all points in WG584 later

Harto, Sean
2009

Catalogue

Forest above La Joya Chica, 2.9 Km SW (by air) of La Joya,
Neracruz, Mexico

Nov. 15

19.58578°N, 97.02895°W [± 6 m], 2259 m elev.

SMR874 Pseudoeurycea cephalica

RNA Later - liver 11/17/09

875 " "

RNA Later - liver 11/15/09

876 Pseudoeurycea lynchi adult

RNA Later - liver 11/15/09

19.58320°N, 97.03228°W [± 6 m], 2289 m elev.

SMR877 P. lynchi adult

RNA Later - liver 11/15/09

878 " " adult

" "

879 Thorius ^{menziesii} adult

" "

SMR880 P. lynchi adult

RNA Later - liver 11/15/09

19.58435°N, 97.03365°W [± 8 m], 2329 m elev.

SMR881 P. lynchi adult

RNA Later - liver 11/15/09

882 " " adult

RNA Later - liver 11/17/09

- SMR881 found in road bank, tail damaged by potato rake

Canyon 2.8 Km N (by rd) of center of Texelo on road to
Coatepec, Neracruz, Mexico

Nov. 16

19.40317°N, 96.98988°W [± 7 m], 1061 m elev.

SMR883

adult

RNA Later - liver 11/17/09

884

adult

"

"

885

adult

"

"

886 Craugastor

adult

"

"

11/11/19
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Rovito, Sean
2009

Catalogue

Rancho Las Puercas, 6.0 Km N (by rd) of entrance to Huatusco on
MX125, Veracruz, Mexico

Nov. 17 19.18543°N, 96.96080°W [± 5 m], 1322 m elev.

SMR887

RNA Later - liver 11/17/09

SMR888 Craugastor

"

"

SMR889 Craugastor

"

"

SMR890 Craugastor

"

"

SMR891 Craugastor

"

"

SMR892 Pseudoeurycea ~~cephala~~ ^{"cafetalera"} juv.

RNA Later - liver 11/20/09

19.18621°N, 96.96204°W [± 13 m], 1307 m elev.

SMR893 Pseudoeurycea ~~cephala~~ ^{"cafetalera"} adult ♀ F - liver 11/24/09

SMR894 " " adult ♂ " "

1.0 Km ^N and 0.8 Km ^E (by rd) from center of Cuantlapan,
Veracruz, Mexico

Nov. 18 18.88390°N, 97.01050°W [± 10 m], 992 m elev.

SMR895 Bolitoglossa rufescens adult ♀ F - liver - 11/24/09

SMR896 " " adult ♂ " "

0.8 Km S (by rd) of Puerto del Aire on MX150, Veracruz, Mexico

Nov. 18 18.69510°N, 97.33978°W [± 5 m], 2314 m elev.

SMR897 Hyla euphrosiacea adult RNA Later - liver 11/19/09

Forest ^{on western} ~~on western~~ edge of town of Puerto del Aire, Veracruz, Mexico

Nov. 18 18.69942°N, 97.33528°W [± 4 m], 2370 m elev.

SMR898 Isthmura troglydites adult F - liver - 11/24/09

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16. 1934

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2009

Catalogue

Coetzala, 8.9 km S (by rd) of center of Amatlan, Veracruz, Mexico

Nov. 27 18.78760°N, 96.91733°W [$\pm 6m$], 585m elev.

SMR 899 Bolitoglossa rufescens adult RNA Later - liver 12/4/09
900 " " adult " "

901 Smilisca baudinii adult RNA Later - liver 12/2/09
- B. rufescens died in captivity while awaiting parasite analysis, dropped tails

9.2 km NE (by rd) of Catemaco on road to Sotecomapan, Veracruz, Mexico

Nov. 28 18.48407°N, 95.06893°W [$\pm 10m$], 520m elev.

SMR 902 Bolitoglossa rufescens adult RNA Later - liver 12/2/09

903 " " adult ♂ RNA Later - liver 12/10/09

SE slopes of Volcan San Martin, 10.5 km NE (by air) of ^{center of} San Andrés
Tuxtla on road to Ruiz Cortines, Veracruz, Mexico

Nov. 28 18.52104°N, 95.14804°W [$\pm 32m$], 1097m elev.

SMR 904 Pseudoeurycea werleri adult ♂ RNA Later - liver 11/28/09

Forest 1.0 km W (by air) of Julian Grajales, 19.4 km (by rd) W of center of Pueblo Nuevo Solistahuacan, Chiapas, Mexico

Dec. 1 17.13084°N, 92.98886°W [$\pm 7m$], 1824m elev.

SMR 905 Bolitoglossa occidentalis juv. RNA Later - liver 12/10/09

Dec. 3 SMR 906 Bolitoglossa hartwegi adult ♀ " "

SMR 907 " " adult ♀ " "

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Catalogue

Forest 1.25 km W (by air) of Julian Grajales, 19.4 km (by rd) W of center of Pueblo Nuevo Solistahuacan, Chiapas, Mexico

Dec. 3 17.12730° N, 92.99077° W [± 6 m], 1950 m elev.

SMR 908	<u>Bolitoglossa hartwegi</u>	adult	RNA Later - liver	12/10/09
909	"	adult ♂	RNA Later - liver	12/10/09
910	<u>Bolitoglossa occidentalis</u>	adult ♂	"	"
911	"	adult ♂	"	"

9.0 km NE (^{by rd} ~~by air~~) of Yajalon-Chilon highway on road from Yajalon to Amado Nervo, Chiapas, Mexico

Dec. 6 17.19820° N, 92.29839° W [± 14 m], 1611 m elev.

SMR 912	<u>Plectrohyla matudai</u>	juvenile	RNA Later - liver	12/10/09
913	<u>Ptychohyla euthysanota</u>	juvenile	RNA Later - liver	12/10/09
914	<u>Bolitoglossa rufescens</u>	adult ♂	RNA Later - liver	12/10/09
915	"	subadult ♀	RNA Later - ^{liver} tail	12/10/09
916	"	subadult ♀	RNA Later - liver	12/10/09
917	"	subadult ♀	"	"

Vista Hermosa, 7.5 km (by rd) N of edge of Berriozabal, Chiapas, Mexico ^{on road to Cairo}

Dec. 7 16.84198° N, 93.30156° W [± 7 m], 1191 m elev.

SMR 918	<u>Bolitoglossa</u>	adult ♀	RNA Later - liver	12/10/09
919	"	adult ♀	"	"
920	"	adult ♀	"	"

For the first time, the weather was perfect. The sun was shining, and the wind was just what we needed. We went for a walk in the park, and everything was so beautiful.

The children were playing happily, and the dogs were running around. It was a wonderful day, and we all enjoyed it very much. We took many pictures, and the children were so happy.

We went to the beach, and the water was so clear. The sand was soft, and the sun was warm. We built a sandcastle, and the children were so happy.

We also went to the zoo, and saw many different animals. The children were so interested, and we all had a great time. We took many pictures, and the children were so happy.

We went to the museum, and saw many different things. The children were so interested, and we all had a great time. We took many pictures, and the children were so happy.

We went to the library, and read many different books. The children were so interested, and we all had a great time. We took many pictures, and the children were so happy.

We went to the park, and played many different games. The children were so interested, and we all had a great time. We took many pictures, and the children were so happy.

We went to the beach, and built a sandcastle. The children were so interested, and we all had a great time. We took many pictures, and the children were so happy.

We went to the zoo, and saw many different animals. The children were so interested, and we all had a great time. We took many pictures, and the children were so happy.

ovito, Sean
2009

Catalogue

edge of
Cuchumbac, 10.5 km N (by rd) of Berriozabal on road to Cairo,
Chiapas, Mexico

Dec. 7 16.86071°N, 93.31046°W [± 9 m], 1066 m elev.

SMR 921	<u>Bolitoglossa</u>	adult ♂	RNA Later - liver	12/10/09
922	"	adult ♂	"	"
923	"	adult ♂	"	"

El Pozo, 11.6 km (by rd) N of center of Berriozabal, Chiapas, Mexico

Dec. 7 16.86204°N, 93.32404°W [± 9 m], 1128 m elev.

SMR 924	<u>Craugastor pozo</u>	adult	RNA Later - liver	12/10/09
925	"	juv.	"	"
926	"	juv.	"	"
927	"	juv.	"	"

9.0 km NE (by rd) of Yajalon-Chilon highway on road from Yajalon
to Amado Nervo, Chiapas, Mexico

Dec. 6 17.19820°N, 92.29839°W [± 14 m], 1611 m elev.

SMR 928	<u>Craugastor</u>	adult ♀	RNA Later - liver	12/10/09
929	"	juv.	"	"
930	<u>Craugastor</u>	adult	"	"

La Galera, 11.0 km SW (by rd) of La Esperanza on MX175, Mpio. San
Pedro Yolox, Oaxaca, Mexico

Dec. 14 17.60071°N, 96.41753°W [± 9 m], 2040 m elev.

SMR 931	<u>Craugastor</u>	adult	RNA Later - liver	12/17/09
932	"	adult	"	"
933	<u>Hyla</u>	juv.	"	"

Appendix

Table 1. Summary of the data collected during the field study.

Location	Time	Temperature (°C)	Humidity (%)	Wind Speed (m/s)
Field 1	08:00	25.0	65.0	1.5
Field 1	10:00	28.0	60.0	2.0
Field 1	12:00	30.0	55.0	2.5
Field 1	14:00	32.0	50.0	3.0
Field 1	16:00	30.0	55.0	2.5
Field 1	18:00	28.0	60.0	2.0
Field 1	20:00	25.0	65.0	1.5

Table 2. Summary of the data collected during the laboratory study.

Location	Time	Temperature (°C)	Humidity (%)	Wind Speed (m/s)
Laboratory 1	08:00	22.0	70.0	0.5
Laboratory 1	10:00	23.0	72.0	0.5
Laboratory 1	12:00	24.0	74.0	0.5
Laboratory 1	14:00	25.0	76.0	0.5
Laboratory 1	16:00	24.0	74.0	0.5
Laboratory 1	18:00	23.0	72.0	0.5
Laboratory 1	20:00	22.0	70.0	0.5

Table 3. Summary of the data collected during the field study.

Location	Time	Temperature (°C)	Humidity (%)	Wind Speed (m/s)
Field 2	08:00	26.0	68.0	1.8
Field 2	10:00	29.0	62.0	2.2
Field 2	12:00	31.0	58.0	2.8
Field 2	14:00	33.0	52.0	3.2
Field 2	16:00	31.0	58.0	2.8
Field 2	18:00	29.0	62.0	2.2
Field 2	20:00	26.0	68.0	1.8

Table 4. Summary of the data collected during the laboratory study.

Location	Time	Temperature (°C)	Humidity (%)	Wind Speed (m/s)
Laboratory 2	08:00	21.0	75.0	0.4
Laboratory 2	10:00	22.0	77.0	0.4
Laboratory 2	12:00	23.0	79.0	0.4
Laboratory 2	14:00	24.0	81.0	0.4
Laboratory 2	16:00	23.0	79.0	0.4
Laboratory 2	18:00	22.0	77.0	0.4
Laboratory 2	20:00	21.0	75.0	0.4

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Catalogue

La Galera, 11.0 km SW (by rd) of La Esperanza on MX175,
Mpio. San Pedro Yoloix, Oaxaca, Mexico

Dec. 14 17.60071°N, 96.41753°W [± 9 m], 2040 m elev.

SMR 934	<u>Chiropoterotriton pluvialis</u>	adult	RNA Later - liver	12/17/09
935	"	adult	"	"
936	"	adult	"	"
937	"	subadult	"	"
938	"	juv.	RNA Later - liver ^{intestine}	12/17/09
939	"	juv.	"	"

3.8 km E (by rd) of San Pedro Yoloix on road to MX175, Mpio. San
Pedro Yoloix, Oaxaca, Mexico

Dec. 14 17.59039°N, 96.53176°W [± 10 m], 2326 m elev.

SMR 940	<u>Plectrohyla</u>	adult ♂	RNA Later - liver	12/17/09
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9.2 km S (by rd) of Valle Nacional on MX175, Oaxaca, Mexico

Dec. 15 17.72399°N, 96.32081°W [± 9 m], 651 m elev.

SMR 941	<u>Bolitoglossa rufescens</u>	adult	RNA Later - liver	12/17/09
942	"	adult	"	"

La Galera, 11.0 km SW (by rd) of La Esperanza on MX175, Mpio. San
Pedro Yoloix, Oaxaca, Mexico

Dec. 15 17.60432°N, 96.41650°W [± 9 m], 2024 m elev.

SMR 943	<u>Craugastor</u>	adult	RNA Later - liver	12/17/09
944	<u>Chiropoterotriton pluvialis</u>	adult ♀	"	"
945	"	subadult	"	"
946	"	juv.	"	"

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Catalogue

La Galera, 11.0 km SW (by rd) of La Esperanza on MX175, Mpio. San Pedro Yuloh, Oaxaca, Mexico

Dec. 15 17.60432°N, 96.41650°W [± 9 m], 2024m elev.

SMR947	<u>Chiropterotriton</u> <u>pluvialis</u>		RNA Later - liver	12/17/09
948	"	" juv.	RNA Later - ^{intestine} liver	12/17/09
949	"	"	RNA Later - liver	12/17/09
950	"	" juv.	RNA Later - ^{intestine} liver	12/17/09
951	<u>Pseudoeurycea</u> <u>saltator</u>	adult	RNA Later - liver	12/17/09
952	"	" adult	"	"

La Esperanza, on MX175 between Ixtlan and Valle Nacional, Oaxaca, Mexico

Dec. 15 17.62733°N, 96.36697°W [± 10 m], 1708m elev.

SMR953	<u>Eleutherodactylus</u>		RNA Later - liver	12/21/09
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1.1 km N (by rd) of Cerro Pelón mirador on MX175, 25.8 km W (by rd) of La Esperanza, Mpio. Santiago Conaltepec, Oaxaca, Mexico

Dec. 16 17.58531°N, 96.51079°W [± 9 m], 2908m elev.

SMR954	<u>Pseudoeurycea</u> <u>juarezi</u>		RNA Later - liver	12/21/09
955	"	"	"	"
956	<u>Thorius</u> <u>aureus</u>	adult ♀	RNA Later - ^{intestine} liver	12/21/09
957	"	adult ♂	"	"
958	<u>Thorius</u> <u>aureus</u> ?	adult ♂	"	"
959	<u>Thorius</u> <u>boreas</u>	adult ♂	RNA Later - ^{intestine} liver	12/21/09
960	<u>Thorius</u> <u>macdougalli</u>	adult ♂	RNA Later - ^{intestine} liver	12/21/09
961	<u>Thorius</u> <u>macdougalli</u>	adult ♂	" ^{also tail tip}	"
962	<u>Thorius</u> "	adult ♂	RNA Later - liver	12/21/09
963	<u>Thorius</u> "	adult ♂	"	"



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Catalogue

6.8 Km N (by rd) of Llano de las Flores on MX175, Oaxaca, Mexico
Dec. 16 17.47893°N, 96.51004°W [± 12 m], 2961m elev.
SMR964 Thorius boreas adult ♀ RNALater-liver 12/21/09

3.7 Km N (by rd) of Peña Verde on road to Talixtac Viejo, Sierra de Juarez,
Oaxaca, Mexico
Dec. 18 17.86864°N, 96.73496°W [± 9 m], 1935m elev.
SMR965 ~~Thorius~~ ~~Cryptotriton~~ Lineatriton adelos adult intestine RNALater-liver 12/21/09

11.5 Km W (by rd) of Peña Verde on road to Concepción Papalo, Sierra de Juarez,
Oaxaca, Mexico
Dec. 18 17.83172°N, 96.78009°W [± 8 m], ²⁷³⁶~~1000~~m elev.
SMR966 Thorius papaloae adult ♂ RNALater-liver 12/21/09

1.8 Km E (by rd) of San Alejo, Sierra de Juarez, Oaxaca, Mexico
Dec. 19 17.87949°N, 96.71579°W [± 8 m], 1587m elev.
SMR967 Craugastor adult RNALater-liver 12/21/09

1 Km W (by air) of center of Cuantlapan, Veracruz, Mexico
Dec. 28 18.87861°N, 97.03175°W [± 8 m], 1042m elev.
SMR968 Bolitoglossa rufescens adult ♀ RNALater-liver 12/31/09
969 " " adult ♂ " "

प्रमाणित किया जाता है कि श्री/श्रीमती/श्रीमान
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[विवरण] [दिनांक] तक

सर्व आवश्यक दस्तावेजों सहित
[विवरण] [दिनांक] तक
[विवरण] [दिनांक] तक

प्रमाणित किया जाता है कि श्री/श्रीमती/श्रीमान
[नाम] [पता] [संस्था] द्वारा
[विवरण] [दिनांक] तक

सर्व आवश्यक दस्तावेजों सहित
[विवरण] [दिनांक] तक
[विवरण] [दिनांक] तक

प्रमाणित किया जाता है कि श्री/श्रीमती/श्रीमान
[नाम] [पता] [संस्था] द्वारा
[विवरण] [दिनांक] तक

Rovito, Sean

2009

Catalogue

Avenida 1 Poniente, 0.8 Km W (by rd) of center of Fortín de las Flores, Veracruz, Mexico

Dec. 28 18.89668°N, 97.00600°W [$\pm 7m$], 1004m elev.

SMR970 Bolitoglossa rufescens adult ♀ RNA Later - liver 12/31/09

971 " " adult ♀ " "

972 " " adult ♂ " "

1 block E of parque central, Cuantlapan, Veracruz, Mexico

Dec. 29 18.87789°N, 97.02212°W [$\pm 8m$], 953m elev.

SMR973 Bolitoglossa platydactyla juv. RNA Later - ^{intestine} liver 12/31/09

0.4 Km E and 1.2 Km S of parque central, Cuantlapan, Veracruz, Mexico

Dec. 29 18.86763°N, 97.02525°W [$\pm 10m$], 1011m elev.

SMR974 B. rufescens adult RNA Later - liver 6/25/10

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Sean M. Rovito

2009

Journal

Guatemala: El Quiche, Huehuetenango

Mexico: Chiapas, Oaxaca, Veracruz

Nicaragua: Granada, Jinotega,
Managua, Rivas, South Atlantic
Autonomous Region

Kovits, Sean
2009

Journal

The original field notes for this trip were stolen, along with my backpack and camera, on Jan. 15 in Guatemala City. I have rewritten them from memory.

Jan. 5 Chichicastenango area, Depto. El Quiché, Guatemala
Ted Papenfuss and I arrived in Guatemala on Jan. 3. We were joined yesterday by Jim Patton, Carla Cicero, Jessie Castillo and Zach Hannah from the MVZ and Carlos Vásquez, Sergio Pérez, Rosa Jimenez, Jacobo Conde and Andrea Cabrera from MUSHNAT and the Univ. de San Carlos. Today we left Guatemala City and drove to Los Encuentros, then took the road to Chichicastenango. We stopped on the way down a deep canyon just before Chichí in a nice oak forest with lots of bromeliads. Javier Sanger found B. cuchumatana here a few weeks ago. We opened bromeliads for about 1 hour, and I quickly found a juvenile B. cuchumatana. Jim Patton, Ted, Jacobo and Carlos searched, too, and Jim got 2 ~~ma~~ adults and a subadult, all in bromeliads. The forest floor was relatively dry, so conditions were good for bromeliads. We had limited time, so we stopped searching and went on to Huehuetenango, where we spent the night.

Jan. 7 Finca Chocansen, on road from Malamboch to Rio Seco, Depto. Huehuetenango
Yesterday, we drove from Huehuetenango to Malamboch. We are staying at a Swedish school/community center run by a man named Per Anderson. We drove east about 10 km on the road to Rio Seco, passing through only cleared areas or secondary pine forest before arriving at some good cloud forest right along the road. We

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2009

Journal

Finca Chicansan, on road from Yalambojoch to Rio Seco, Depto.
Huehuetenango, Guatemala (cont.)

Jan. 7 ... Drove on to the aldea of Chaguenaal and learned that most of this forest is owned by a private finca, Finca Chicansan, owned by a man named Salomon Nistoro in Huehue. The rest of the forest belongs to the community of Nuevo Triunfo, past Chaguenaal. We spoke to the manager of the finca, who gave us permission to work there this morning. We put in 5 small buckets (maybe 1.5-2L) on a trail 10.3 km (rd) from Yalambojoch, and then started searching in bromeliads and logs. We began searching around 10:00 or 10:30 and I quickly found a small hybrid with tan dorsal coloration, yellow legs and black spots on the side, but it escaped out of my hand. We found several small Bolitoglossa with feet like B. rufescens but with darker dorsal coloration and black mottling on a pale venter. These might be B. stuarti, or just B. rufescens; they were found in bromeliads. Carlos got a big B. lineolus in a bromeliad; it has a mostly continuous red band on the dorsum, more like the ones we got in Nebaj, in 2005 than those from San Marcos, which have more broken red coloration. I opened a fair number of logs and, to my surprise, found an adult Brachytriton silus inside a small rotten log. It's very exciting to have found this salamander, and this extends its range beyond just Finca Chiblac. We searched here until about 14:00. Jacobo got 2 juvenile Bolitoglossa that are brown with separate toes and may be B. cuchumatana. We drove on, took the road to Chaguenaal and stopped in some liquidambar forest 0.4 km from the Yalambojoch-Rio Seco road. We searched in bromeliads for about an hour and got a dark-colored salamander that I would tentatively call

Rovito, Sean
2009

Journal

Jan. 7

Finca Chacanson, on Malamboch-Rio Seco road, Dept. Huehuetenango, Guatemala (cont)
... Blitoglossa stuarti. The forest here looks secondary, or at least quite disturbed; the understory is mostly Heliconia. We then drove to Rio Seco and onto a flat-topped hill with good forest on both sides of the road and continued to Chiquis, about 2 km from the Mexican border crossing (unofficial). The forest behind the town looked very nice and seemed like it was at a good elevation to look for Blitoglossa jacksoni (1000-1100m). The people seemed wary of us, and the mayor told us they were under Zapatista control, and that it would be better if we left. We drove to Malamboch, where we got a more welcome reception but saw much less forest. We then tried to ask permission in Rio Seco to work in their municipal forest, but were told forcibly (and almost violently) to leave at once before something happened. We later learned that 2 entomologists collecting butterflies in the forest here had been attacked and driven out. There appears to be no government presence here (including police), so the communities are in complete control of everything. We gave up and decided to work in Finca Chacanson instead of looking for a new site.

Jan. 8

We returned to Finca Chacanson this morning. Ted and Carlos went to the manager's house to find someone to watch the bird team's mist nets; two were stolen last night. Jacobo and I started searching at 09:20 in some really nice forest 11 km (rd) from Malamboch. While there has been logging of some of the big trees, many are left and the forest structure appears intact - this is better than where we were yesterday, where the forest was somewhat disturbed. I quickly

into, Sean
2009

Journal

Jan. 8

Fincas de Casan, on Malambogich - Rio Seco Road, Depto. Huehuetenango, Guatemala (cont.)

... found a small Bolitoglossa (rufescens?) under a log; during the rest of the day, I found several more under logs, in bromeliads, under a rock along the road and even in a rot mass of some weeds along the road. This species appears to be extremely abundant here. The loggers have left many woodpiles lying around, and Jacobo found another Brachytriton in one of them; I found another at 09:40, when Ted and Carlos arrived. Carlos and I each found 1 more under logs in the woodpile - the logs are on top of a carpet of sawdust, and thus are quite damp underneath. Ted declared he wouldn't leave the area until he found me, even if it meant staying extra days. We spent the rest of the day searching for woodpiles, which we then let Ted search while we waited. Carlos found another Brachytriton under a board, and I got 1 in a log. We spent several hours like this, and then went to the nearby town of Bendición de Dios around 16:30 to ask permission to search along the Rio Sancapek, the type locality of Hyla dendrotrachina, at night. They said yes, so we returned at 19:00 and went to the creek with 2 men from town. We searched along the river from about 19:45 - 20:45, in both 2° forest, farmland and some remnant forest with big trees and bromeliads. I caught a Rana vaillanti (saw/heard many more) and a small hybrid (Ptychohyala?) of the same species I found yesterday in a bromeliad. Ted and Carlos each got a Ptychohyala. We then walked from the town to the "Laguna Kanera", which turned out to be a lake in the middle of a cow pasture (with some liquidambar trees) and Rana. This took a long time, and we drove back to Malambogich. The weather was very dry tonight - not the best for finding amphibians.

Roiter, Sean
2009

Journal

San Mateo Chetatan area, Depto. Huehuetenango, Guatemala

Jan. 9

We drove up towards San Mateo Chetatan in search of Dendrobates "chrysium", currently being described by Jon Campbell. We took a wrong turn after Bulej and ended up in a fairly nice oak-madrone-pine forest with lots of bromeliads just before the small village of Palagua. We went back and continued to San Mateo, where we got a 1 day permit and someone from the municipality to go with us for Q100.

We asked him about bromeliads and he directed us back the way we had come. We found only pine forest and grassland, and it became clear he didn't know what a bromeliad was. We then drove to a spot ca. 4 km (road) from San Mateo on the main road to Huehne, where we found some big oaks still standing. There were no bromeliads here, but we searched for about an hour under bark and in logs. This was clearly a nice oak forest once but it is now very open and highly disturbed. I got 3 B. rostrata in logs, we got 3 Sceloporus in a bank and Jacobo found a Bufo boreas. We dropped off our "guide", got another who wanted a ride to Bulej (spelling?) and returned to the forest near Palagua. We searched in bromeliads from 16:30 - almost 18:00. The forest floor was very dry, and bromeliads were productive. I got 2 B. rostrata and 3 B. lincolni, including 3 salamanders in 1 bromeliad. Carlos and Jacobo got a B. rostrata and a big B. hartwegi. We left at dusk and spent much of the evening preparing specimens. We had planned to go to Laguna Maxbal, near Finca Chiblac, in the next day or two, but the logistics proved complex and the accommodation/permit situation there was uncertain, so we decided not to move. The weather continued to be unseasonably dry.

Rovito, Sean
2009

Journal

Jan. 10 Finca Chreansan, 10-11 km (rd) E of Malambojoch, Depto. Huehuetenango, Guatemala
We spent the morning and early afternoon photographing and prepping specimens. We returned to Finca Chreansan around 15:00 at Ted's insistence - he said he would not leave until he personally caught a Bradytriton. We searched for ~1 hr in bromeliads and logs at the trail 10.3 km from Malambojoch, but found only 1 small Bolitoglossa sp. (not collected). We then moved to the spot 0.7 km further on, where we found all the Bradytriton, and searched from approx. 16:45 - 18:00. We found another small Bolitoglossa (not collected). We waited until about 18:45 and walked the path with lights. I found an adult Bradytriton walking on a log and called Ted over to pick it up - apparently this "counts". He found another small Bolitoglossa (collected) under a log and Carlos got a Craugastor rhodophis. We searched until around 20:00, but conditions were dry and we found nothing else. This area has lots of rock (limestone?) with small caves or cracks, some of which were quite deep and seemed moist. It looks like what I picture as great habitat for Nyctanolis; I expect they are here and that one could find them if it rained more.

Jan. 11 Palegua area, Mpio. San Mateo Cuxtatan, Depto. Huehuetenango, Guatemala
We drove to San Mateo Cuxtatan and spent the morning getting guides, permits and hotel rooms for the bird and mammal teams, who will work near here for 2-3 days. We then drove back to the forest near Palegua, arriving at approx. 15:00, and began to search in bromeliads. Carlos found a Hemidactylus almost immediately, and I found another. Ted got a male, female and a

Raito, Sean
2009

Journal

Palegua area, Mpio. San Mateo Ixtatan, Depto. Huehuetenango, Guatemala (cont.)

Jan. 11 ... juvenile in a single bromeliad, and we ended up with a total of 6 D. chrysomus, plus ⁵ B. linedini, 1 B. hartwegi; 7 B. rostrata in 2 hours of searching, all in bromeliads. This forest is unlike others we have worked at in Guatemala; in addition to madrone trees, there are also tons of big agave plants. We drove back towards Malambojoch and tried to work in the area of forest where the bird and mammal teams had worked earlier, ca. 3 km from Malambojoch, but we had time to open only a few bromeliads before it got dark. The dry weather continued today, which was ideal for bromeliads. It would be nice to get some rain and perhaps have a chance to find Nyctanolis, though.

Montañas de Peña Blanca, Cuicco, Depto. Huehuetenango, Guatemala

Jan. 12 We left Malambojoch at 08:00 and drove towards Cuicco. Along the way, we found a Kinosternon crossing the road just past Aldea las Palmas, where the road to Malambojoch meets the Nentón-Mexican border road. We continued to CA-1, turned off at Colotenango towards Cuicco and then took a very steep road north to San Francisco El Retiro. We climbed out of extremely dry habitat into more mesic oak-madrone forest, went past San Francisco El Retiro and arrived at a locked chain, behind which is a forest "protected" by INAB. We paid Q100 to have the gate unlocked and drove on to a point 17.1 km (rd) from the main highway. This area is high and dry, with pine-fir-oak forest, grassland and lots of rock. It looks just like the high part of the Cuchumatanes above Huehuetenango.

Rovito, Sean
2009

Journal

Montañas de Peña Blanca, Cuilco, Depto. Huehuetenango, Guatemala (cont.)

Jan. 12

...The area where we stopped to work has been logged, but there were still pine and oak trees and tons of logs. Ted and I worked mostly in exposed, drier areas in logs and got 1 B. morio, 1 Sceloporus and 1 Mesaspis each. Carlos and Jacobo worked more in the forest and got 6 B. morio, in and under logs, 3 P. rex juveniles in logs and a Dendrotriton rabbit in a bromeliad in an oak tree. I joined them and found another juvenile P. rex in a log and 2 big D. rabbit in a single bromeliad in an oak tree (1 of 2 I opened).

searched here
approx. 2 hrs.

We drove back towards the gate and stopped in an oak-pine-madrone forest with tons of bromeliads that looked a lot like the D. "chigorum" site near Palagua. We opened bromeliads for ~45 min and Jacobo found a big Alibon. This is the first one I have ever seen, and it is really beautiful. We drove back to CA-1 and spent the night at the Hotel El Reposo.

La Cumbre, Montañas de Cuilco, Depto. Huehuetenango, Guatemala

Jan. 13

We drove from El Reposo up into the Montañas de Cuilco, past El Paraíso to "La Cumbre," the high point on the road to

We found a single D. rabbit here in 2007. We worked the same area as then, walking up a trail S of the road from 2000-2500m.

Bromeliads were abundant near the road, and I got a tiny Anolis, a B. morio and a B. lincolni in bromeliads. This forest has been logged, has cows in it and looks in worse shape than it did over a year ago. We searched here from 10:00-13:00, in both bromeliads and logs. Carlos got a big B. lincolni from inside a log.

Ortiz, Sean
2009

Journal

La Cumbre, Montañas de Guilco, Depto. Huehuetenango, Guatemala (conts)

Jan. 13

... The adult B. lincolni that I've seen from here are unusual in that their dorsal coloration is somewhat yellow-orange rather than the bright red seen elsewhere. This species seems extremely variable in coloration. We got 1 more B. lincolni and 2 more B. morio (in bromeliads, I think) and then had to head back to La Democracia to deal with export permits. The area was quite wet and it seems to have rained last night, which could explain our relatively low success with bromeliads. The weather today was cool and very misty.

Yalambojoch to Huehuetenango, Depto. Huehuetenango, Guatemala

Jan. 14

We packed up this morning and left Yalambojoch. Carlos and I pulled out the pitfall traps at Finca Chxcansan and got a live Bradytriton and 3 dead shrews. It rained heavily last night, which must have brought them out. The Bradytriton must be abundant here, considering that we caught 1 in only 5 small pitfalls with no drift fences. The rest of the group returned to Huehuetenango by way of Norton while Carlos, Ted and I drove to the Dendrotriton cuchumatana type locality near San Juan Chxoy. We were denied permission to enter by the people who live there, and it didn't seem open to negotiation. We drove on to Huehuetenango, having wasted several hours driving, where we all spent the night.

Ortiz, Sean
2009

Journal

Finca Magdalena, Isla de Ometepe, Depto. Rivas, Nicaragua
Aug. 22 Arrived in Managua on Aug. 20 w/ Ted Papenfuss. Drove to Leon and gave talks the next day at UNAN-Leon. Met Javier Junyer and his friend Lenin Obando. Drove to San Jorge, Depto. Rivas. Stopped at El Quicor for ~10 min to look for Hermaphys in cafetales but found nothing. Woke up and took ferry to Isla de Ometepe, then drove to Finca Magdalena at base of Volcán Maderas. At 5:30 PM, drove to Humedal Istorian near Playa Santo Domingo and began searching in a wetland with lots of grass at 18:30. Found a Kinosternon scorpioides in shallow, muddy water near shore; also saw juvenile Craugastor dracodrylus, caught 2 Rana resplandens and saw many more, and got 2 Leptodactylus melanostictus. Put in 1 turtle trap to get more Kinosternon. Habitat included dry forest trees and Araceae growing like mangroves in more stagnant, forested areas of wetland. Searched for 15 min in shallow water with tall vegetation for many calling Dendropsophus microcephalus; Lenin caught one. Walked back towards starting point; I caught 2 more Kinosternon scorpioides in shallow, muddy water on way back. Also got a Tritanodrhinus nigrolineatus on edge of stagnant water in forested area with many fish. Saw a large female Basiliscus vittatus sleeping on a branch, but it escaped into water. Javier thought he saw a Phyllodactylus tuberculatus. Found a small Leptodactylus fragilis where we put in turtle trap, which had only fish in it. Stopped to catch 11 Engystomus pustulosus in a small temporary pond along road near Finca Magdalena. Day was warm, cloudy with thunder but no rain in afternoon. Evening cool and clear. Stopped searching in humedal at 20:00 before driving back to the Finca.

Sto, Sean
2009

Journal

Volcán Maderas, Isla Ometepe, Depto. Rivas, Nicaragua

Aug. 23

We started hiking at 08:00 at Finca Magdalena in dry forest. Quickly moved through dry forest and cafetal to an area of cacao trees, with wet leaf litter and some large broadleaf trees. Graugastor were abundant here; 5 of us collected 18 C. lawroster and 4 C. fitzingeri in leaf litter in ~30 min. Our guide, Doya, saw an armadillo. Continued uphill with a dramatic vegetation change to a misty cloud forest with abundant ferns and some epiphytes (few bromeliads, though) as we passed the cloud line at ~600 m. Reached camp at 800 m and started searching at 13:00 along trail; Bolitoglossa insularis have all been found by day so far, including in the morning by guides. Opened logs, turned stones and checked in and on vegetation. Doya got a Silvery nebulatus on a big fern, while Javier and Lenin got a Sphenomorphus cherrei and several C. fitzingeri. Javier, Doya and I walked very slowly up to ~1150 m, where the trees are much lower and have a thick covering of moss, and waited from 17:30 - 17:50 for it to get dark. Turned back and slowly searched with lights all the way back to camp. I saw an arboreal rodent and a Marmosa as well as a few Graugastor, and passed Ted + Lenin on the way down. Night was rainy, after a very misty day with drizzle, and cool with a lot of wind, perhaps too much for the salamanders. We all returned separately to camp between 22:30 and 23:00 without any salamanders. In addition to the possible rarity of this species (B. insularis), I think that the windy weather reduced our success. Still, cloud forest was incredible, especially considering its setting.

into, Sean
2009

Journal

El Rama, R.A.A.S., Nicaragua

Aug. 25

Yesterday, woke up and hiked down Volcan Maderas. Ferry to San Jorge broke, and we took another, arriving in Maragua to prep specimens. Visited MARENA in morning, then drove east to town of El Rama, end of the paved road to the Atlantic coast. Wanted to get to Kukra Hill, but road was in very bad shape, so we stayed at the Ecohotel El Nivero just east of El Rama. Arrived at dark to hear Leptodactylus melanostus, Scinax staufferi, Agalychnis callidryas and Hiaporus diastema in the hotel garden; caught a few. Drove west out of town for about 13 km and heard D. microcephalus, Smilisca baudini, S. phaeota, Bufo valliceps and above-mentioned frogs in ditches along road. Collected several B. valliceps and S. staufferi in a ditch along the road, where I saw a Micromys that escaped by burrowing in bottom of muddy grassy pool. Also collected a Rana forsteri and a Trachycephalus venulosus on road in light rain. It had rained all day, creating good conditions for searching. Found a DOR Plisoreus euryzonus that had just been killed, and saw a small long-tail Boa constrictor on road. Searched for ~1 hr including stop at pond. Returned to hotel. Javier, Lenin and I searched in grassy Eucalyptus arbores plantation behind hotel, where large female Bolitoglossa striatula was on a branch of a fallen tree in the middle of grass. Our first Nuca salamander! I searched for ~30 min before going back; habitat seemed bad, w/ no natural vegetation in sight. Javier + Lenin saw a Basileiscus and caught several anoles (A. limifrons + A. lemurinus) as well as a Monatodes albogularis.

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Rovito, Sean
2009

Journal

Kubra Hill and Greenfields Reserve, RAAS, Nicaragua

Aug. 26 New road from El Rama to Kubra Hill was very bad after recent rain, so we hired someone with a truck to drive us there (3.5 hr). The first half of the trip was through cow pasture and the second half through oil palm plantations; no forest whatsoever left. Arrived in Kubra and took a panga south to Greenfields Reserve (ca 1 km), run by 2 Swiss people. Husband (Keta) was extremely anti-collecting; he might have told us at some point before to save us the trip. I spent 1 hr negotiating, went back to Kubra Hill and returned by rowboat to Greenfields at 18:45. Keta led us through secondary forest that grew after a hurricane and fires 15 yrs ago. Lots of palm trees, some kind of spiky ground bromeliad, and thin broadleaf trees present, but forest wasn't very nice. Conditions were fairly dry (no rain today) and we heard only Piezoporus lissota calling, and perhaps an Agalychnis (not sure). I also saw a Scinax staufferi. Saw nothing but a Leptodrymus pulcherrimus in a tree and several (4-5) Anolis limifrons; searched until 21:15. Keta knew all about frogs, and appears to be a good naturalist, but has never seen a salamander! perhaps they are not here. There doesn't seem to be any other forest in the area, based on what he and our boatman said.

The first of these is the fact that the world is not a uniform whole. It is a collection of many different parts, each with its own characteristics and its own history. The second is the fact that the world is not a static whole. It is a collection of many different parts, each with its own characteristics and its own history. The third is the fact that the world is not a uniform whole. It is a collection of many different parts, each with its own characteristics and its own history.

Karto, Sean
2009

Journal

Kukra Hill, RAAS, Nicaragua

Aug. 27

We went down to the boat dock in town and looked in a small area of green bananas behind the restaurant next to the panga dock for ~30 min. The bananas were OK but small and not numerous. Collected 2 Hemidactylus at dock. Javier and I walked back to the hotel, stopping in people's yards to check in their banana trees, searching for 30-40 min total. Javier found a big Trochoccephalus venulosus, a juvenile Smilisca baudinii and a Sphaerodactylus millepunctatus. We ate lunch, hired a taxi and drove out with a kid, Santo, whose father, Dionisio Blandón Romero, owns a finca at the base of Kukra Hill, the type locality of Bolitoglossa striatula, about 1.5 km by air W of the town of Kukra Hill. We started searching in red banana plants at 13:30, then switched to green bananas (almost all were green except perhaps 10-15). We looked under leaves on the bananas, in banana leaf litter and under the abundant banana logs. Lenin and Javier found a Ninia sebae and an Anolis limnifrons, and a juv. S. baudinii fell onto the taxi driver's head. We also searched in a coconut palm where our guide saw 2 salamanders 8 days ago. Habitat outside of banana areas was Heliconia or weedy growth, with many oil palms and a few trees. We searched until about 16:00. Ted had gotten lost and went back to the taxi. He searched in a few green bananas there and found an adult B. striatula. It was extremely hot and sunny all afternoon, with no rain. Spent the evening preparing specimens. The entire area around Kukra Hill is trashed with oil palm plantations, so it's nice to know that B. striatula can still be found here.

into, Sean
2009

Journal

Aug. 29

El Mabrado, Reserva Natanti - El Hualto, Depto. Jinotega, Nicaragua
Yesterday, took panga from Kukra Hill to Bluefields. Wanted 5 hours at dock to get panga to El Rama, then drove to Matagalpa. This morning, drove to a place called El Mabrado in Reserva Natanti - El Hualto, where there is a cabin to stay in. Arrived late in heavy rain, Ted insisted he wouldn't sleep there. Area has lots of coffee and bananas around the houses, with very nice cloud forest above big broadleaf trees, tree ferns, and thick understory with many lianas. Searched under brush piles around cleared areas + coffee, near where Javier found a jungle Oedipina before, from about 15:15-16:00. Then split up - Javier stayed there while 3 of us walked up into forest. Searched under logs + in leaf litter with rakes until 18:00. I went up to 1500m into nice forest, got lost + didn't get back until 18:30. We got 2 Anolis guagulus in forest. Around pond at buildings, found A. callidus, Rana brevius, Dendropsophus ebriatus, Bufo excelsus, and Smilisca baudini. It rained for first half hour of searching, then was cloudy. Drove up to Universidad Centroamericana (UCA) field station - very nice, saw an Agalychnis along the way. Walked down to a nearby stream, found 2 Batrachoseps schlegelii along road in yucca plants and Rana vallarta along road. Searched along a nice stream in forest from 20:00-22:00; found a Hypsiglena lasiota (heard many), Anolis capito, A. limifrons, A. guagulus, and heard Hylinobatrachium highmani. Then walked along path in forest from ~22:00-22:45, and found a huge Amantodes canehoa, plus a Pristimantis ridens and A. capito. Walked back to UCA station. Also got S. baudini + Leptodactylus melanostus along road.

Raito, Sean
2009

Journal

Aug. 30

El Hobiado, Reserva Datanlí - El Diablo, Depto. Jinotega, Nicaragua

Woke up to find that the cat at UCA station had eaten several specimens, including the biggest Chamaeleo any of us had ever seen. Went back to cabin at El Hobiado and started searching at about 09:30 with 2 guides. Walked up through secondary forest and bananas to nice primary forest. I saw a Crangon (noble?) but it escaped. Opened many logs until we arrived in an area with lots of bamboo and very big trees, where I found an adult Oedipina inside a very rotten log. It was very thin and completely black without any markings - the first of this genus I have ever found. We then continued down to the houses where we started, turning logs and raking in leaf litter as we had before. I searched a lot in the leaf litter in the buttresses of large trees but found nothing more. Habitat is really nice, and Oedipina doesn't seem too rare - 8 specimens total have now been found (this one, Javier's + 6 by a Nicaraguan herpetologist). Known elevational range is now ~1250 - 1400m. I'm not familiar w/ O. pseudouniformis, but paratypes from nearby Finca la Cumplida (on road from Jinotega to Matagalpa) could be conspecific with these (whether or not they are really O. pseudouniformis). We stopped searching around 13:30 and drove through Jinotega to try to visit Finca la Cumplida by way of Finca Monimbo, owned by Lenin's friend, but had to stop at a locked gate. Got a DDR Masticodryas dorsalis outside of Matagalpa. Drove back to Managua and spent evening prepping specimens.

Rovito, Sean
2009

Journal

Volcán Mombacho, Depto. Granada, Nicaragua

Aug. 31

Spent morning at MARENA arranging export permit, then drove to Volcán Mombacho. Road climbs from dry forest through coffee to a beautiful cloud forest with lots of epiphytes and short trees. Stayed at visitors center/field station and waited until dark. Luckily found 6 Boletoglossa mombachoensis on Heliconia around station in about 10 min; collected 1. After dinner (ca. 20:00) started walking down road. Salamanders were abundant on the higher part of the road, and we continued to see them until we passed 920m elev, below which we saw none. Color patterns very variable, from almost uniform brown to striped, with several specimens very light in color. Found 2 specimens with reddish (SMR852) or orange (SMR851) spots on a light background. Most have some B. striatula-like lines on venter, but not nearly as pronounced, and lack (or nearly lack) them on limbs. Found 4 Amphispiza bandirii, 2 Heterospinus ~~microcephalus~~ microcephalus, 1 Crangaston litigiosus, 2 Bufo caxifier, 5 Anolis currens and about 10 Anolis biporcatus (collected 5). Searched down to about 840m, then started back up, arriving at station around midnight.

Sept. 1

Drove down to Finca las Flores, where someone took a photo of a black Boletoglossa sombra-like salamander. Finca is below cloud forest. Started searching in cafetal around 09:30, then walked up road, stopping at 1000m. Searched under logs, in leaf litter, in a few bananas + cut down a few bromeliads but found nothing. 2 guides from MARENA came with us and searched.

Rovito, Sean
2009

Journal

Nolán Manbach, Depto. Granada, Nicaragua (cont)

Sept. 1

It was hard to search in cafetal, which was overgrown with weeds and had few logs. Our guide got a Crinophanes piceiventris along a path on edge of cafetal (saw another) and 1 Ninia sebae in leaf litter. Stopped searching around 12:30

Los Cocas, Lago de Nicaragua, Depto. Granada, Nicaragua

Sept. 2

We drove out on the road to Malacatoya along the northern shore of Lake Nicaragua, looking for the type locality of Trachemys emoli. Drove 22.2 km to the small town of Los Cocas (measured from cathedral in Granada), then found a fisherman with a boat who knew a good spot for turtles. We went with him and 2 other guys through really nice wetlands, with abundant bird life, to what appeared to be the mouth of a river on the edge of the Lago de Nicaragua. Each guy took 2 large water hyacinths, held them in front of his face as camouflage, and swam around looking for turtles. I thought they were kidding, but they came back after about 20 min with a male and female Trachemys. It was completely incredible - I tried the same thing for about an hour with no success. We stayed for about 2 hours total, and they came back with another 2 turtles and said they saw at least 10 more. Apparently they just slowly swam up to the turtles and then grabbed them. We spent a relaxing night in Granada after returning to shore.

Warto, Sean
2009

Journal

Finca las Helicias, El Guacaro, Depto. Managua, Nicaragua
Sept. 3 Picked up export permit in Managua and drove south from Managua on the highway to Rivas. Stopped at El Guacaro + drove past antennas to Finca las Helicias, owned by a priest, where Javier had found Hermaphys in the past. We took the caretaker and raked through leaf litter and looked under logs in a cafetal from 12:45-15:30. Conditions were dry, but soil was moist under litter + logs. I found lots of Hermaphys burrows and dug them up in the soft volcanic soil, without success. I think that the caecilians were probably deep in their burrows, and we would need wetter conditions to find them. I did find a Uta stansburiana (12.01085°N, 86.27888°W [WG584, ±7m], 885m elev.), and Lenín got a Salpinctes. This finca seemed like a great place for Hermaphys under better conditions. We drove to León to spend the night.

Palermo, west of León on road to Lupaya beach, Depto. León, Nicaragua
Sept. 4 We spent the morning sorting specimens, etc and then drove out from León on a new road to the beach. Stopped in a lake along road and threw in 6 turtle traps. Went to the beach, leaving traps in for ^{2.5} hours (14:30-~~16~~ 17:00) in shallow, muddy water. We caught 4 Trachemys with very little effort before returning to León. Dropped off Javier + Lenín, then drove to Managua to spend the night.

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into, Sean
2009

Journal

Nov. 13

Las Nigas, Veracruz, Mexico

Left Mexico City at 5 AM and drove to Perote. Took MX140 to Las Nigas. Missed road to Las Lajas microwave station and drove up a smaller road E of Las Nigas (leads to Volcancillo, which I think is a cave) and parked in village of Alto San Francisco, where road became impassible for my Chevy Corsa. Walk to microwave station (~1 hr) through regenerating pine forest. The forest around the towers is in better shape, although still somewhat disturbed. Mostly pine with a lot of oak in some areas, some madrone and understory of bunchgrass. Conditions were somewhat dry but stumps and logs were wet inside and underneath, and leaf litter was fairly damp. Searched under the few logs I found, under bark of stumps and under rocks from 12:00-14:45. Found only 2 Pseudoeurycea leprosa, one adult + 1 juv., under a rotting cardboard tube near the microwave station. The conditions seemed OK, and I was surprised not to find more salamanders. I did see an Elgaria, a Sphaeromorphus (I think, escaped in grass), a Pituophis and a Phrynosoma. Walked/drove back to Las Nigas and took road to Villa Alegre. Went 4.5 km along road and stopped in pine forest - only trees were yellow pine with bunchgrass covering the ground. Searched from 16:45 to 17:45 under rocks, in bark of stumps + under clumps of dead grass. Didn't find any logs - probably all used for firewood. P. leprosa seemed quite common - I found 1 under rocks, 3 under dead clumps of bunchgrass and 1 tiny juvenile under a small piece of bark beside a stump. It got dark and I drove to Malapa to spend the night. Mistake - tons of traffic on road. The day was mostly clear but fairly cold - maybe 16-17°C at microwave station.

Intro, Sean
2009

Nov. 14

Loma Alta Microwave station, 6 Km ENE Chiconquico, Veracruz, Mex.

Woke up kind of late (exhausted from starting so early yesterday) and had to fix a problem with my bank card in order to withdraw money. Eventually left Xalapa in late morning and drove to Banderilla, then to Nalanco and on to Chiconquico. Turned off on road to Loma Alta and drove all the way to the microwave station at the end. A small oak forest remains around the station, with lots of good logs on the ground. I started searching here at 13:00 and searched for ~45 min without finding ~~much~~ anything. Walked along ridge to ~~the~~^E through cattle pasture to a bigger patch of forest extending along ridge and down slopes. Large, very mossy oak trees and moderate amount of leaf litter. Searched primarily under logs until 16:15. I found a juvenile Pseudoeurycea (cephalica?) under a very small piece of wood. Opened 3 bromeliads (almost the only ones I saw) and searched in 1 spiny bromeliad on the ground. Again, conditions seemed very favorable, but results were disappointing. Forest was somewhat disturbed by logging of individual trees and by livestock, but had tons of logs & could definitely have salamanders still. Drove to Nalanco looking for places to stop at lower elevation but didn't find any habitat. Spent the night in a not-so-great hotel in Nalanco, which seems to have one zapateria for every 3 inhabitants. The day was clear and warmer than yesterday, probably around 20°C.

Karto, Sean
2009

Journal

Nov. 15

La Joya Chica, SW of La Joya, Veracruz, Mexico

Woke up somewhat late - still tired I guess (or lazy). Searched in 8-10 bromeliads behind hotel in Tlacoliner but found nothing. Decent looking but small fragment of oak forest with lots of epiphytes. Drove to La Joya and turned off to La Joya Chica, just south of town. Drove through town and took paved road uphill to E that ended at some houses and a pink church. Walked past church, then turned left onto a dirt road (impassable to cars, I think). Started searching in ca 10m wide remnant strip of oak forest along road in both bromeliads + under logs, beginning at 12:35. Quickly found a Pseudoeurycea (cephalica?) under a small branch on the ground. A little farther up in an area of mixed pine-oak forest (larger patch, extending W from road), found another P. cephalica (?) under a small ~~scrap~~ scrap of wood. Opened one small bromeliad from a very small oak tree (almost a shrub) and got a Pseudoeurycea lynchi. Beautiful golden-green dorsal color, and much more rapid movement than most other pseudos I've seen. Continued up path into a larger forest remnant bordered by cow pasture on 2 sides + dirt road on other sides. Found 2 P. lynchi coiled up together in a small crack on top of a 1m high pine stump, covered in pine needles. This area has very thick pine needle litter and a broadleaf tree understory w/ a fair amount of herbaceous plants. Found a Thorius and a P. lynchi in a small decomposing log covered with thick pine needle litter. Searched in pine needles around base of trees but found nothing; no bromeliads here. Continued uphill to edge of forest, which changes from pine to oak. Found a big P. lynchi under a piece of cut wood.

Kanto, Sean
2009

Journal

Nov. 15

La Joya Chico, SW of La Joya, Veracruz, Mexico (cont)

Opened about 4 more bromeliads but found nothing. Spent about 15 min searching in roadbank and got 1 more *P. lynchi*. Stopped searching at 15:45 and walked back to car. Drove to La Joya and asked about salamanders - people know them (as "Hacometes") but said they only see them in the wet season. I searched in ~10 bromeliads outside town and under stones nearer to town for about 45 min before it got dark but found nothing. Drove to Coatepec to spend the night, staying at Hotel Murray (cheap, nice). The day was clear in the morning and warm, becoming cloudy + colder around 14:00.

Nov. 16

Teacelo, Veracruz, Mexico

Drove from Coatepec to a big canyon 2.8 km N (by rd) from the center of Teacelo. Lots of red banana trees amidst coffee both on flat canyon bottom and on a steep slope. Searched both in bananas and in very good leaf litter and loose soil from 11:10 - 12:40. Found 3 hybrid frogs (*Ptychocheilus*?), 2 on ground and one in a banana plant. Also got 1 small *Craugastor* under bark on the ground. Also saw a small snake (maybe 20 cm long) that looked vaguely like a garter snake. The habitat looked very good for salamanders but I found none. I then tried to drive to Huatusco by a road on my map that turned out not to exist. Made a series of wrong turns and then ended up on a terrible road. Got to Huatusco after dark; salamanders will have to wait until tomorrow. Stayed at Hotel Roma (cheap, not bad).

London

Friend

I have been thinking of you very much lately and
wondering how you are getting on. I hope you are
well and happy. I have been very busy lately but
I have managed to find some time to write to you.
I have been thinking of you very much lately and
wondering how you are getting on. I hope you are
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I have managed to find some time to write to you.

Raito, Sean
2009

Journal

Rancho Los Puentes, Huatusco, Veracruz, Mexico

Nov. 17

Drove 6.0 Km N from northern entrance to Huatusco on MX 125 to Rancho Los Puentes, a known salamander locality. Started searching at 9:45 along the edge of some remnant forest with big trees, a thick understory of mostly ferns and lots of bromeliads (almost all very small). I quickly found a juvenile black Pseudoeurycea under a pile of sticks and leaves, and then found a Craugastor in a similar situation. Got 2 more Craugastor out in leaf litter and saw one more - 2 species here I think. After about 30-40 min I switched to searching in the cafetal itself, both in leaf litter and under the many logs that were left there. Got a fairly big green hyliid under bark of a log. Searched in forest near finca entrance and along highway, opening about 5 bromeliads, all of which were full of water. It rained last night and the ground and leaves are quite wet. I moved uphill and worked the cafetal below the main building. This is real shade-grown coffee, with large liquidambar and other broadleaf trees providing shade. Searched in tons of rotting logs amidst coffee but found nothing. Near bottom of hill, leaf litter was deeper and I raked in it. Found 2 adult dark brown/blackish Pseudoeurycea.

P. cephalica

One was near base of large tree and other near stump. They are quite robust - not sure which species. Stopped searching at 14:20 and drove to a very nice small patch of forest on a ranch 5 of Huatusco, where I found nothing in 30 min of searching. Drove up bumpy, slow road to Microondas las Trincheras, only to find there was no decent forest. Ended up arriving in Fortín well after dark; stayed at Hotel Magnolias just off plaza - pretty cheap + really nice.

19.13447°N

96.98147°W

1467m elev.

$\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & -i \\ 0 & 1 \end{pmatrix}$

1. *Chlorophyll a* (Chl *a*)

Porto, Sean
2009

Journal

Nov. 18

Cuautlapan and Puerto del Aire, Veracruz, Mexico

Woke up to find my car had a flat tire; took some time to get it fixed. Drove out of Fortín on old road (carretera federal) to Cuautlapan, then to outskirts of town. Found a small (maybe 15-20m wide) area of coffee + banana trees amidst corn and squash fields, perhaps 200m W of forest at base of Cerro Chichahuatlán, 1.0 Km N and 0.8 Km E (by rd) of center of town. I searched for ~30 min in green bananas, leaf litter + under grass piles. Found 1 B. rufescens in a green banana tree and another under the bark of a fallen log. Drove up carretera federal to Puerto del Aire and spent about 1 hour

(1:40-2:40 PM) searching in an oak forest ca 0.8 Km S of town. There were very few logs & rocks and not very thick leaf litter. Found nothing on the ground and got an adult Hyla euphroasiaca in a bromeliad. Moved to a forest on the E edge of the town of Puerto del Aire, where oak trees were much bigger, mossier and laden with epiphytes (although few reachable bromeliads). Again, not many logs to turn. Searched under branches, leaves + rocks from 15:00-16:00 with no success. This forest seems to get a lot of cloud water input compared to drier surrounding areas. Finished by searching under boards and bricks/stones next to road and got a Thrinacosuchus (Lutarius / troglydytes). Drove back to DF, noting drastic change to xeric vegetation just a few Km away from Puerto del Aire towards Tehuacan. Conditions were very foggy and fairly cool.

also saw
a juvenile
Hyla

orto, Sean
2009

Journal

Los Juxtlas, Veracruz, Mexico

Nov. 28

Left the DF around 6:30 yesterday and drove to Cordoba. Turned off just past Cordoba and passed through Amatlan, then headed for ~9km to small town of Coetzala. It was packed with banana plants, and I found a nice plot of land w/ coffee and tons of red bananas. I searched from 11:00-12:45 in great red bananas, leaf litter + under banana "logs"; found 2 B. rufescens and a Smilisca baudinii, all in banana plants. Both cafetals in town and forested hillsides around town seemed great for salamanders, but I left to get to Catemaco. Arrived there, ate dinner + fell asleep exhausted (no sleep the night before). Woke up and drove N from Catemaco towards beaches. Looked for bananas but found almost none, driving all the way to UNAM field station. Worked my way back opening spiky bromeliads (~10) and checking bananas in town of So and along rd, but people were very touchy b/c it's a biosphere reserve. Finally found some red bananas (most in area were green) and got 2 B. rufescens. Drove back to San Andres Juxtlas and took road N to Ruiz Cortines. Stopped in very rocky area of forest and searched for ~30 min w/o success. Continued on to just beyond high point on road and searched for ~20 min, before it got too dark. Found one adult Pseudoeurycea ~~weberii~~ ^{weberii} under a big piece of bark on forest floor. Conditions were wet and I think I could have found more salamanders if I had more time. Drove to Coatzacoalcas to be closer to Juxtlas Gutierrez tomorrow.

2009

Journal

Pueblo Solistahuacan area, Chiapas, Mexico

Dec. 1

On Nov. 29, I drove to Justita Gutierrez to meet Antonio Muñoz and Nora Lopez, and we continued on to San Gustobal. Antonio and I drove to the top of Cerro Tzontehuitz. We searched on the roadbank with lights from 11:10-11:55, but it was extremely dry and we saw nothing. Yesterday, Antonio went to work for most of the day, and then we drove to Pueblo Nuevo Solistahuacan. This morning, we went to see the type locality of Cryptotriton alvarezdeltoro in the "Selva Negra", below Puerto del Niente between Rincon Chamula and Rayon. There are even fewer trees than in March 2008, and more landslides; this area is pretty trashed, and has no decent forest left. We then tried to reach some forest above the villages of Juan Bragales and Carrizal. Everyone told us the road was too bad for cars, so we wasted a ton of time finding a truck to take us there. Finally got one and took road from Pueblo Nuevo W to Shashalpa, then up to Juan Bragales; the road was OK and my car could have made it. We walked uphill from town to the only area of forest around. It was mostly pine, with small oak trees and many bromeliads. Lots of logging has happened here. I found a small B. hartwegi? occidentalis? in a bromeliad shortly after we started searching around 14:15. We opened some bromeliads, then spent a long time cutting a path across some overgrown regenerating vegetation to an area with pine and some oak trees and many bromeliads, with a thick scrubby understory. We opened about 20 more bromeliads but found nothing; could see better forest on next ridge. Had to stop searching around 16:20 to get our ride back to Pueblo Nuevo. We searched in the type locality below Puerto del Niente from ~21:30-22:30, but saw only Plectrohyla ixil and Anolis.

Kovits, Sean
2009

Journal

Dec. 3

^{Mex.}
Julian Arzales, 19.4 Km (by rd) W of Pueblo Nuevo Solistahuacan, Chiapas
Yesterday, drove to Simojovel and tried to get permission to visit the community of El Jardin, on south side of a large, E-W trending mountain (Cerro) with forest at its higher elevations. This seems like a perfect area for C. alvarez-deltorai, but the community is problematic (Zapatistas/narcos/military), and no one was in the municipality to write a permit. After waiting 3 hours, we decided just to go, but the road to El Jardin was terrible and my car couldn't make it (would need a truck). Apparently, Pueblo Nuevo Solistahuacan is much friendlier, but is 2.5 hr by truck from Simojovel on a terrible road. Drove up and returned to Pueblo Nuevo Solistahuacan. Today, we drove (in my car this time) back to Julian Arzales and walked to an area just above where we had worked before. It had apparently been burned in the past, resulting in an overgrown and shrubby understory, but had very big oak and pine trees loaded with bromeliads of several species. We started searching in bromeliads at 11:30, and finished at 16:00. I would estimate we opened 50-55 bromeliads, and found 4 Bolitoglossa. One was quite large, and they have broad, webbed feet; based on this and coloration, they could be B. stuarti, or B. hartwegi. The forest where we found them very much resembles that at Lago de Montebello. Bromeliads were good (although they had lots of water) and I was surprised not to get more. I think this area has potential for Cryptotriton. Walked down to pine forest (where we found salamander on 12/1) and got 2 more Bolitoglossa out of about 7 bromeliads. Stopped at 16:30, walked down + drove back to San Cristobal. The day was overcast and cool, with lots of late afternoon fog.

Karto, Sean
2009

Journal

Yajalon area, Chiapas, Mexico

Dec. 6

Spent Dec. 4 waiting for Carlos to show up in San Cristobal, and most of Yesterday was spent in San Gius because Antonio had a report to finish. We drove to Yajalon in the evening and he stayed up all night working on it. In the morning, we drove W out of town through La Ventana to Emiliano Zapata, where we received a less-than-friendly welcome in 2007. This time, permission to climb Cerro Acababná had supposedly been arranged through a teacher in Yajalon. We had to wait 2 hours for ~~the~~ mass to end, then spent an hour talking with people. They eventually told us we had to ask the entire town at their assembly, so Antonio will return then. We tried the road that crosses a high pass + continues down to Pueblo Nuevo Sitá - it was good almost up to the highest point, and my car nearly made it. The area was clearly nice cloud forest before but is now trashed, at least along the road; I think there is still forest just over the ridge. Drove back to Yajalon and took road E to Amado Nervo. Stopped 9.0 Km from the highway and waited till nightfall to search in a small patch of cloud forest. There were enormous trees, lots of tree ferns, a small stream and some rocks with small caves. It seems like a perfect forest for Cryptotriton, although part of it was more disturbed with mostly tree ferns and few trees. It was cool and foggy, but the vegetation was wet from yesterday's rains. We searched from 18:17-21:00; Antonio got a B. rufescens, while I got 3 more plus a Phyllorhiza macleayi, Hydrophyla euthysanota, and 3 Graugastor of 2 species. We drove back to San Cristobal, arriving at 2 AM.

Raito, Sean
2009

Journal

El Pozo, N of Berrizabal, Chiapas, Mexico

Dec. 7

We woke up somewhat late and drove to Juxtlá, then on to Berrizabal. Stopped at a friend of Antonio's house in the small village of Nosta Hermosa, 7.5 km from the edge of town. We searched in 3 sets of bananas in town for ~30 min and got 3 Bolitoglossa that may be B. occidentalis - they are quite large and rather dark. We then stopped in the next settlement, Aichumbac, 10.5 km from the edge of Berrizabal, and searched in both red and green bananas for 30 min until it got dark. Found 4 Bolitoglossa (all in red bananas); they are smaller and lighter in color, and I would guess they are rufescens. The area between these 2 sites is a forest (apparently secondary) that seems pretty dry but apparently has some bromeliads. The contact zone between the two species may be in this area. We drove on to El Pozo, the Chalabraton niger type locality. We searched from 18:40-19:40 but only found 1 Adelphicos and 4 Craugastor sp. The night was dry and nearly cloudless, so conditions for finding amphibians were poor. Antonio has looked here many times under all different weather conditions, and believes this species is extinct. The habitat is more fragmented than when I was here in 2007, but still has some very big trees and lots of rocks with cracks and little caves. We gave up and returned to Juxtlá.

lost 1

Bolitoglossa
in field

into, Sean
2009

Journal

MX175 below Cerro Pelón, Sierra de Juárez, Oaxaca, Mexico

Dec. 14

Attyne Carriedo Solis, a recently graduated UNAM ~~student~~ student working with Oscar Flores, Pedro Jendro Legama, a plant collector, and I left Mexico City yesterday morning and drove to Oaxaca; spent night in Oaxaca de Juárez. This morning, drove to Santiago Comaltepec to ask for permission to collect. Talked with 2 people in the Comisariado de Bienes

Comunales (Victor M. Hernandez Ortiz + Celso L. Lopez Holey), since the comisariado was gone. They told us that we either couldn't collect or could take 1-2 samples (they weren't sure). They sent us to talk to the agentes in La Esperanza, who were gone when we got there. We decided to start sampling and drove to "La Galera", a bus stop 11.0 km (by rd) from La Esperanza on MX175, just before the turnoff to San Andrés.

The forest all the way down MX175 from Cerro Pelón to La Esperanza is in great shape, with only limited areas of obvious disturbance. This area has a path through cloud forest with some big trees, tree ferns, a fairly dense understory, and lots of bromeliads (including some huge ones). We started opening bromeliads at 12:00 and stopped at 13:30, opening perhaps 15 good ones. They didn't have much water in them, and the leaf litter was dry, as was the area under smaller logs.

We got 6 Chiropterotriton pleuralis and a Hyla out of bromeliads, and 2 Crangaston (saw several more) on the ground.

I think this is the same area where Ted collected Gymnotriton adelphi.

We then drove to San Pedro Yulac and met with the authorities, who gave us permission to collect + a place to sleep. We then drove back to La Esperanza and talked to the authorities, who had returned. They hadn't talked with Comaltepec, but gave us permission to work.

into Sean
2009

Journal

MX175 below Cerro Pelon, Sierra de Juarez, Oaxaca, Mexico (cont.)

Dec. 14 We drove back to San Pedro Yula, stopping at a stream 3.8 km from town to search with lights for ~25 min. I found a Plectrohyla on vegetation in the spray zone of a waterfall. We slept in the Palacio Municipal salon de reuniones in San Pedro Yula.

Dec. 15 We were low on gas and drove to Valle Nacional in the morning to fill up. On the way back, we searched in bananas starting in San Mateo Yotla and finishing in an area with red bananas around a shrine to the Virgin, 9.2 km from Valle Nacional, where I found 2 B. rufescens; we searched in about ²⁰30 banana plants total. We then returned to La Esperanza and searched in bromeliads from 13:00-16:00. We got 7 more C. pleurotus, as well as 2 Pseudoeurycea with a yellow dorsal stripe that I think are P. saltator. I also got a Graugastis that seems to have a less prominent / no eye stripe, and saw ²more just like the ones from yesterday; all these were found on the ground. We drove to La Esperanza and took the road through town that goes downhill. The area near town is all secondary growth & scrub, albeit with some huge bromeliads. We arrived in an area of forest around 1400m that appears to be at the cloud forest-low elevation forest ecotone, with big (Aechmea) bromeliads. Lots of people around so we didn't open any or search. Stayed in La Esperanza, and went back out to search in the forest across MX175 from town when it started raining hard at night, around 21:30. Searched in OK forest with light to moderate rain from 22:45-12:10, but got only a single Graugastis (?) with expanded toe tips on a leaf ~1.5m above the ground. Felt an earthquake around 01:00.

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Rovito, Sean
2009

Journal

Cerro Pelon area, Sierra de Juarez, Oaxaca, Mexico

Dec. 16

It continued to rain more lightly all last night and continued through the day. We walked into the forest above La Esperanza, but bromeliads had completely filled with water and we decided not to open more. We were walking down when the La Esperanza agentes told us that the Comisariado of Comaltepec had arrived & wanted to talk to us. We spent an hour talking to him about what we should do to work there; turns out we need to write a proposal in advance. His contact info is:

Ing. Norberto Uriel López Hernández, Presidente del Comisariado de Bienes Comunales de Santiago Comaltepec. Tel/Fax 01-951-546-6051
cel: 044-951-1188054 nlopez@h@gmail.com,

We continued on to a forest with huge, mossy oaks and lots of rocks and logs, 1.1 km (by rd) N of Cerro Pelon on MX175. We searched from 14:10-15:10 in a very cold light rain. I got 2 *P. juarezei*,

J. ~~atlanticus~~ aureus and *J. boreas* (*macdougalli*?), all under rocks, and Citzye and Pedro each got 1 *J. macdougalli* in logs. We continued up MX175 to Llano de las Flores and searched for ~10 min, but it was dry (hadn't rained much here) so we drove back to Cerro Pelon. While stopped at a landslide being cleared from the road, 6.8 km N of Llano de las Flores, I flipped 1 rock that had a *Thorius boreas* under it.

We searched in oak forest at the junction of MX175 and the road to San Pedro Moxc from 17:00-17:40 but I found only a *Sceloporus*.

After dark, we searched with lights in a very cold rain with lots of wind at the Cerro Pelon mirador and below on rock walls, but found nothing. We then drove back to La Tabera (11 km from La Esperanza) and searched in a cold, light rain from 20:00-21:50. I saw

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Main body of handwritten text, consisting of several paragraphs. The handwriting is cursive and somewhat faded. The text appears to be a letter or a journal entry, discussing various topics in detail. The paragraphs are separated by small gaps, and the overall flow is continuous.

Warto, Sean
2009

Journal

Cerro Pelon area, Sierra de Juarez, Oaxaca, Mexico (cont)

Dec. 16 ... only 2 *Craugastora*; although conditions seemed good, it may have been too cold, since Dec. rain is out of the normal rainy season. We returned to the car to find the alarm control was wet + broken, and we couldn't deactivate the alarm. After many hours of trying, we camped where we had parked, and it continued to rain lightly all night.

Peña Verde, Sierra de Juarez, Oaxaca, Mexico

Dec. 18 Yesterday, woke up + got a ride to Valle Nacional. Called UNAM + figured out how to deactivate alarm. Took bus back to truck + drove to Cuicatlan to spend night. On the way, passed the nice-looking oak forest where we searched briefly in 2008, near Km 180 on the free highway to Cuicatlan. Today, we stopped in Concepción Papalo for a permit, drove to Peña Verde + found out that it's in the municipality of Santa Maria Papalo. Drove on to the *Pinus chiapensis* forest below Tlaxiatac Niejo, where I found a *Thorius* tail last year. This forest also has *Leguminifera* and *madroal*, and is being cut down tree by tree. We searched under logs and by raking in leaf litter around pine trees from 15:45 - 17:25 but found nothing (17.88279°N, 96.74541°W [+9m], 1513m elev. Conditions were a little dry but seemed OK, especially under and in logs. We drove to the forest at the intersection of the roads to Tlaxiatac Niejo and San Alejo, where we found a *Pseudoeurycea* sp. + 2 *C. "pluvialis"* last year. This is cloud forest, dominated by a tree with a mahogany-type compound leaf and some kind of tree with big pieces of exfoliating bark. There are tons of good

17.45458°N,
96.93278°W
2280m elev.

Kanto, Sean
2009

Journal

Peña Verde area, Sierra de Juárez, Oaxaca, Mexico (cont)

Dec. 18

... bromeliads, but they were extremely full of water, as it has been raining here. We searched in a cold, light rain (as at La Galera) from 18:45-19:30 and found no animals active and foraging. I turned over one small rock atop the roots of a fallen tree and found a small ~~Thomomys~~ *Thomomys*. It is smaller and lighter in color than the *J. papaloe* I've seen, and has a patch of light color on its head and some tiny white spots on the gular region. I suspect it's a new species, presumably the same as the tail from Talixtac Viejo. We gave up searching, since nothing seems to be active, and drove to Santa Maria Papalo to get permission to work and to spend the night. The comisariado was very friendly and interested, and gave us a permit and a 2 room suite next to the church. It turns out both of our sites are in yet another municipality, San Francisco Chapulapa.

Dec. 19

Drove back to the forest where we got the *Thomomys* last night, stopping at a point 11.5 km (by rd) W of Peña Verde to collect a *J. papaloe* in the same place we found them last year. This one was under a big log in a pine-oak forest and is larger and darker than the one we got last night. When we reached the forest where we got the ^{C. adelphi} ~~new~~ *Thomomys*, we searched from 11:00-13:45 in tons of logs and leaf litter. Conditions seemed very good but we found nothing. The forest extends in a long strip away from the road junction, and parts of it seem in very good shape. Some areas have lots of *Chusquea* and understory plants and seem more disturbed.

2/09
Myotis
adels!

The first part of the book is devoted to a description of the life of the author. It is a very interesting and detailed account of his childhood and early years. The author describes his family, his friends, and his own experiences. He also talks about his education and his early career. The second part of the book is a collection of essays. These essays are on a variety of subjects, including politics, literature, and philosophy. The author's writing is clear and concise, and his arguments are well thought out. The third part of the book is a collection of letters. These letters are to friends and family, and they give a more personal view of the author. The fourth part of the book is a collection of speeches. These speeches are on a variety of subjects, and they show the author's skill as a public speaker. The fifth part of the book is a collection of other writings. These include a number of short stories and a few longer pieces. The book is a very good introduction to the author's work, and it is well worth reading.

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into, Sean
2009

Journal

Peña Verde area, Sierra de Juárez, Oaxaca, Mexico (cont)

Dec. 19

... We drove down the road to San Alejo and continued on for a few km to an area with Pinus chiapensis / Secundum forest, just like in Jalixtác Viejo. We searched in logs and leaf litter from 15:00-16:50. Conditions seemed great, but the only thing we found was a Graugator that ityue got along the road. We met a man who told us the forest had burned 15-20 years ago; given that there is no forest in the surrounding areas, this could explain the lack of success we had. Or, the Thrinax are just hard to find. We gave up and drove out to Cuicatlan and on to Teotitlan to spend the night! It was fairly cold and foggy today, and a light rain (chipi-chipi) fell on us all day.

Cuauttapan and Fortín de las Flores, Veracruz, Mexico

Dec. 28

I drove to Cuauttapan this morning and drove to the end of the road on the W side above the PEMEX. Searched from 11:30-13:15 in a shade cafetal, mostly under rocks and logs but also in bananas. Got 2 B. rufescens, both in red bananas. Drove to western edge of Fortín and asked around until some people let me walk through their yard to a huge cafetal w/ tons of logs + red bananas on the S side of Av. 1 Sur. Searched 14:00-14:50 but got only 2 B. rufescens in red bananas and 1 under a rock. Also saw a Sphenomorphus under a banana log. Searched briefly in a cafetal on the road to Huatusco and on the road from Fortín down to the bridge at the highway on the W side of town but the habitat wasn't very good at either site. Spent rest of day looking for a site to look tomorrow. Was cloudy in the morning with drizzle after 15:00. Stayed in Córdoba.

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Carto, Sean
2009

Journal

Dec. 29

Cuautlapan and Fortín de las Flores, Veracruz, Mexico

Started the day by searching in a vacant lot with a lot of bricks and some banana trees. In about 30 min of searching, I found a tiny, juvenile B. platydactyla under a brick. Went back to the cafetal above Cuautlapan to the W and searched under stones, logs & leaf litter for ~45 min but found nothing. Moved on to Fortín and searched in vacant lots and along streets near the railroad for ~45 min; found 2 Ninia sebae under a rock. Walked W into "Reserva Metcal", an area along an old railway that leads to the cuota highway bridge into town. Searched under stones and in trash behind houses for ~45 min but found nothing. Went back to Cuautlapan and searched in several people's yards. Found a B. rufescens under a wooden crate. Drove to Orizaba to search in ~~the~~ city parks (Dave Wake's suggestion for B. platydactyla) but couldn't find one with cover objects. Drove up and drove back to DF. The day was cloudy but not raining, and fairly warm.

2004

2004

2004

The first part of the book is devoted to a general introduction to the subject of the book. The author discusses the importance of the subject and the scope of the book. He also discusses the methods used in the book and the results of the research. The second part of the book is devoted to a detailed discussion of the subject. The author discusses the various aspects of the subject and the results of the research. The third part of the book is devoted to a discussion of the future of the subject. The author discusses the various challenges facing the subject and the potential for future research. The fourth part of the book is devoted to a discussion of the conclusions of the research. The author discusses the various findings of the research and the implications of the findings. The fifth part of the book is devoted to a discussion of the bibliography. The author lists the various sources used in the research.



Sean M. Rovito

2009

Photo Log

Rovito, Sean
2009

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
1/3/09	2831, 2832	volcano in Mexico (Orizaba?) from plane
1/5/09	2833-34	Volcan Santa Maria from CA-1
1/7/09	2835-37	forest, Finca Chexansan
	2838-2843	site where 1st <u>Bradytriton</u> (CRVA1699) found
	2844-2857	CRVA1669, <u>Bradytriton</u>
	2863-2868	orchid, Finca Chexansan
	2869-2872	view from Rio Seco road to E, looking towards Chexan
	2873-2875	forest, Chiquis, beyond Rio Seco on road to border
	2876	bad road, climbing to Rio Seco
1/8/09	2878	screech owl
	2879-2883	bird + mammal people working
1/9/09	2884-2888	Malamboch from Swedish school
	2889-2894	road to San Mateo Chetatan, near Ocante
	2895-2896	plaza, San Mateo Chetatan
	2897-2900	<u>Hemidactylus</u> "Luzon" site, near Palagrua
1/10/09	2901-2902	orchid from Finca Chexansan
	2903-2930	SMR738, <u>Bolitoglossa cuchumatana</u>
	2931-2947	SMR742, <u>B. lincolni</u>
	2948-2953	CRVA1693, <u>Bufo borealis</u>
	2954-3038	SMR746, <u>Bradytriton silus</u>
	3039-3040	SMR754, <u>Rana vaillanti</u>
	3041-3044	SMR759, <u>B. rostrata</u>
	3046-3056	CRVA1683, hylid
	3058-3063	SMR755, <u>Plectrohyla</u>
	3064-3075	SMR756, <u>Bolitoglossa</u>

? I think it's
(this specimen,
could be wrong)

Harto, Sean
2009

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
1/10/09	3076-3094	SMR744, <u>Bolitoglossa stuarti</u> ?
1/11/09	3095-3100	colorful buildings on way to San Mateo chetatan
	3100-3107	San Mateo chetatan
	3108-3113, 3156-3160	<u>D. "chrysom"</u> site, near Palenque
	3115-3155	SMR772 & SMR773, <u>D. "chrysom"</u>
1/12/09	3161-3237	SMR746, <u>Brachytriton</u>
	3238-3245	Montañas de Peña Blanca, Cúcuta
1/13/09	3246-3274	SMR772, <u>D. "chrysom"</u>
	3275-3284	CRVA1716, <u>B. lincolni</u>
	3285-3311	SMR784, <u>Dendrotriton rabli</u>
	3312-3329	AJCP029, <u>Abronia</u>
	3320-3343	SMR765, <u>Bolitoglossa</u>
	3344-3350	CRVA16936, <u>Craugastor</u>

Rovito, Sean
2009

Photo Log

<u>Date</u>	<u>Photo ID</u>	<u>Description</u>
8/21/09	0689	Nolcán Monstumbo from W
8/22/09	0690, 703	Isla Ometepe from ferry
	0691, 94, 96, 700, 08	Nolcán Maderas from ferry
	0697, 99, 702, 06, 07	Nolcán Concepción from ferry
	0698, 705	ferry to Ometepe
	0704, 09, 10, 12, 14	Nolcán Mombacho from ferry
8/23/09	0715	maggies, Ometepe
8/24/09	0717-19	Nolcán Maderas from road to Mayagualpa
	0720	Nolcán Mombacho from ferry
	0721, 23, 25	Nolcán Concepción from ferry
	0724	Nolcán Maderas from ferry
	0726, 27, 29-31	<u>Crangaston fitzingeri</u> ♂
	0732, 34, 37, 39-41	<u>Crangaston lauraster</u> ♀, JS1365
	0743-50	<u>Crangaston lauraster</u> ♂, SMR805
	0751-59	<u>Crangaston fitzingeri</u> ♂
8/25/09	0760, 62, 63	<u>Phiaeracus euryzonatus</u> , JS1390
8/26/09	0764-66	muddy road from El Rama to Kukra Hill
	0769, 71-75, 77-81	<u>Leptodrymus pulcherrimus</u> , JS1398
8/27/09	0782-812	<u>Bolitoglossa striatula</u> , SMR829
	814-863	" " SMR816
	864-873	<u>Traehyophalus venulosus</u> , JS1402
	0874, 78, 79, 82	<u>Sphaerodactylus millepunctatus</u> , JS1401
	0883-84	<u>B. striatula</u> , ventral SMR816 (large), SMR829 (small)
	0886-87	<u>B. striatula</u> , ventral SMR816
	0888-	" " SMR829

1947

1947

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Larito, Sean
2009

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
8/28/09	0889-0890	Kukera Hill
	0891-92	churches, Bluefields
8/29/09	0894, 96, 98, 0900	<u>D. abbreviatus</u> , JS
	0902-0922	<u>Agalychnis saltator</u> ~~callidryas~~ , SMR832
8/30/09	0923-25	Dantoli - El Diablo, <u>Oedipina</u> site
	0927-0929	view from El Diablo, Dantoli - El Diablo
	0930-0944	<u>Oedipina</u> sp., SMR842, in field
	0947-0950	<u>Diosporus diastema</u> , JS/410
	0951, 54, 57, 59	<u>Craugastor lundaster</u> , SMR844
	0961-1143	<u>Oedipina</u> sp., SMR842, in hotel
8/31/09	1145-1147	Motmot, Managua
8/31/09	1148	Masaya market
	1149-1176	view from Volcán Mombacho
	1177, 87, 97-1203	<u>Bolitoglossa mombachoensis</u>
	1205-1262	" " SMR845
	1263-1266	<u>B. mombachoensis</u>
	1267, 70, 71, 75	<u>B. mombachoensis</u> , SMR852
	1277-1283, 1294	<u>Anolis biporcatus</u>
	1287-1288	<u>B. mombachoensis</u> , SMR851
	1290-1292	leaf miner katydid
	1293	bird, Volcán Mombacho
9/2/09	1295-1298, 1307-1330	Granada
	1299-1306	<u>Trachomys molli</u> , SMR859
9/4/09	1332-1333	church, León

Item	Quantity	Unit
1. Cement	1000	kg
2. Sand	2000	kg
3. Gravel	3000	kg
4. Bricks	10000	nos
5. Tiles	5000	sqm
6. Paint	100	liters
7. Labor	100	man-days
8. Transport	100	km
9. Water	1000	liters
10. Electricity	100	kwh
11. Tools	100	nos
12. Materials	1000	kg
13. Cement	1000	kg
14. Sand	2000	kg
15. Gravel	3000	kg
16. Bricks	10000	nos
17. Tiles	5000	sqm
18. Paint	100	liters
19. Labor	100	man-days
20. Transport	100	km
21. Water	1000	liters
22. Electricity	100	kwh
23. Tools	100	nos
24. Materials	1000	kg
25. Cement	1000	kg
26. Sand	2000	kg
27. Gravel	3000	kg
28. Bricks	10000	nos
29. Tiles	5000	sqm
30. Paint	100	liters
31. Labor	100	man-days
32. Transport	100	km
33. Water	1000	liters
34. Electricity	100	kwh
35. Tools	100	nos
36. Materials	1000	kg
37. Cement	1000	kg
38. Sand	2000	kg
39. Gravel	3000	kg
40. Bricks	10000	nos
41. Tiles	5000	sqm
42. Paint	100	liters
43. Labor	100	man-days
44. Transport	100	km
45. Water	1000	liters
46. Electricity	100	kwh
47. Tools	100	nos
48. Materials	1000	kg
49. Cement	1000	kg
50. Sand	2000	kg
51. Gravel	3000	kg
52. Bricks	10000	nos
53. Tiles	5000	sqm
54. Paint	100	liters
55. Labor	100	man-days
56. Transport	100	km
57. Water	1000	liters
58. Electricity	100	kwh
59. Tools	100	nos
60. Materials	1000	kg
61. Cement	1000	kg
62. Sand	2000	kg
63. Gravel	3000	kg
64. Bricks	10000	nos
65. Tiles	5000	sqm
66. Paint	100	liters
67. Labor	100	man-days
68. Transport	100	km
69. Water	1000	liters
70. Electricity	100	kwh
71. Tools	100	nos
72. Materials	1000	kg
73. Cement	1000	kg
74. Sand	2000	kg
75. Gravel	3000	kg
76. Bricks	10000	nos
77. Tiles	5000	sqm
78. Paint	100	liters
79. Labor	100	man-days
80. Transport	100	km
81. Water	1000	liters
82. Electricity	100	kwh
83. Tools	100	nos
84. Materials	1000	kg
85. Cement	1000	kg
86. Sand	2000	kg
87. Gravel	3000	kg
88. Bricks	10000	nos
89. Tiles	5000	sqm
90. Paint	100	liters
91. Labor	100	man-days
92. Transport	100	km
93. Water	1000	liters
94. Electricity	100	kwh
95. Tools	100	nos
96. Materials	1000	kg
97. Cement	1000	kg
98. Sand	2000	kg
99. Gravel	3000	kg
100. Bricks	10000	nos

into, Sean
2009

Photo Log

Date	Photo #	Description
11/13/09	1399-1402	forest at Microondas Las Lajas, above Las Vigas
	1404-1413	<u>Pseudoeurycea leprosa</u> , Las Lajas
11/14/09	1414-1416, 1430	Loma Alta microwave station, above Chiconquisalco
	1417-1418	forest where <u>P. cephalica</u> found, Loma Alta
	1420-1429, 33-34	view to ~~E~~ from Loma Alta microwave station
	1431-1432	forest, Loma Alta
11/15/09	1435	forest where 1st <u>P. lynchi</u> found, Joya Chica
	1436-1447	SMR877 & 878, <u>P. lynchi</u> , Joya Chica
	1448-1485	<u>Ichorius</u> ^{minydenus} SMR879, Joya Chica
	1487-1492	SMR877 & 878, <u>P. lynchi</u>
	1504, 1508	juvenile <u>P. leprosa</u>
11/16/09	1509, 1516, 1518	cathedral, Coatepec
	1526-1541	SMR864, <u>P. leprosa</u>
	1542-1557	SMR874, <u>P. cephalica</u> ?
	1558-1566	SMR882, <u>P. lynchi</u>
	1567-1587	SMR873, juvenile <u>Pseudoeurycea</u>
	1590-1616	SMR879, <u>Ichorius minydenus</u>
11/16/09	1617-1630, 4	SMR880, 5
	1636-1647	SMR886, <u>Grangaster</u>
11/17/09	1649-1664	SMR893, <u>Pseudoeurycea cephalica</u>
	1667-1671	SMR887
	1672-1677	SMR888, <u>Grangaster</u>
	1678-1681	SMR889, <u>Grangaster</u>
	1682-1683	forest, Rancho Los Puertos, N of Huatusco

ovito, Sean
2009

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
11/28/09	1737-1743	SMR 904, <u>Pseudoeurycea werleri</u>
12/03/09	1744-1749	ruined church near Julian Grajales, Chiapas
12/06/09	1751-1752	forest at pass between Emiliano Zapata + Pueblo Nuevo Sitalá
12/10/09	1753-1762	SMR 908, <u>Bolitoglossa hartwegi</u> ?
	1763-1772	SMR 924, <u>Craugastor pozo</u>
	1773-1775	SMR 928, <u>Craugastor</u> sp. 1, near Yajalon
	1776-1779	SMR 930, <u>Craugastor</u> sp. 2, near Yajalon
	1780-1790	SMR 912, <u>Plectrohyla matudai</u>
	1791-1795	SMR 913, <u>Ptychohyla enthysantha</u>
12/13/09	1796	chapulines, Oaxaca market
12/14/09	1797	San Pedro Yolex from Santiago Comaltepec
12/15/09	1798	SP Yolex
	1799	forest near SP Yolex
	1800	Cerro Pelón, S. side from MX175
	1801-1808	forest between La Esperanza + La Galera on MX175
	1809-1861	SMR 944, <u>Chiopterotriton pluvialis</u>
	1862-1887	SMR 934, "
	1889-1898	SMR 933, <u>Hyla</u>
	1901-1935	SMR 951, <u>Pseudoeurycea saltator</u>
	1936-1942	SMR 931, <u>Craugastor</u>
	1945-1961	SMR 940, <u>Plectrohyla</u>
	1962-1965	SMR 943, <u>Craugastor</u>
	1966-1975	SMR 941, <u>Bolitoglossa rufescens</u>
12/16/09	1976-1982	view to S from La Esperanza
	1984-1985	forest ~ 1 km N of Cerro Pelón on MX175

الحمد لله

الاسم	الرقم
أحمد بن محمد	1001
عبدالله بن علي	1002
محمد بن أحمد	1003
علي بن محمد	1004
أبو بكر بن علي	1005
أبو طالب بن محمد	1006
أبو جعفر بن علي	1007
أبو القاسم بن محمد	1008
أبو الحسن بن علي	1009
أبو الفضل بن محمد	1010
أبو سعيد بن علي	1011
أبو داود بن محمد	1012
أبو يوسف بن علي	1013
أبو زكريا بن محمد	1014
أبو حمزة بن علي	1015
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أبو جعفر بن علي	1019
أبو القاسم بن محمد	1020
أبو الحسن بن علي	1021
أبو الفضل بن محمد	1022
أبو سعيد بن علي	1023
أبو داود بن محمد	1024
أبو يوسف بن علي	1025
أبو زكريا بن محمد	1026
أبو حمزة بن علي	1027
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أبو سعيد بن علي	1035
أبو داود بن محمد	1036
أبو يوسف بن علي	1037
أبو زكريا بن محمد	1038
أبو حمزة بن علي	1039
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أبو محمد بن علي	1041
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أبو داود بن محمد	1048
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أبو جعفر بن علي	1055
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أبو سعيد بن علي	1059
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أبو سعيد بن علي	1083
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أبو حمزة بن علي	1099
أبو علي بن محمد	1100

ovito, Sean
2009

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
12/18/09	1987-2044	SMR 965, <u>Cryptotriton adelos</u> , ~~Thorius~~ sp., Peña Verde
	2046-2056	SMR 953, <u>Eleutherodactylus</u>
12/19/09	2059-2156	SMR 965, <u>Cryptotriton adelos</u> , ~~Thorius~~ sp., Peña Verde
	2157-2160	<u>Sceloporus</u> , on road from Concepción Papalo to Peña Verde
	2167-2205	SMR 966, <u>Thorius papaloe</u>
	2206-2207	pine forest 11.5 km E of Concepción Papalo, <u>T. papaloe</u> habitat
12/20/09	2208-2248	SMR 956, <u>Thorius aureus</u>
	2249-2278	SMR 954, <u>Pseudoeurycea juarezi</u>
	2279-2298	SMR 959, <u>Thorius boreas</u>
	2301-2319	SMR 955, <u>P. juarezi</u>
	2320-2352	SMR 960, <u>Thorius macdougalli</u>
	2353-2365	SMR 967, <u>Craugastor</u>
	2369-2381	SMR 964, <u>Thorius boreas</u>
	2382-2394	SMR 966, <u>Thorius papaloe</u>

Left in Guatemala

Jan. 2009

- 1 Sleeping Bag
- 1 Foam Pad
- 1 Sleeping Tarp
- 1 9-liter Can Soy
- 1 Can opener
- 1 Tackle Saw
- 2 5gallon Buckets
- 4 Kim Wipes
- various syringes of all sizes
- rope
- bungee cords
- frozen tubes - several hundred
- gloves - 4 boxes
- 3 2L Nalgene bottles
- 3 preserving trays
- 1/2 box trash bags
- 150 ETOH tubes
- 3 bags small collecting bags, enough larger bags
- swab vials - ~200
- machetes - ~6
- 3 tarps
- Towing 5thap
- DMSO - 350 ml
- RNA later 1 liter
- 6 potato Rakes
- 7 Machetes

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~~Lenin Obando Simpson~~
lenin Obando Simpson

lenin_obando@yahoo.com

(505) 8-866-6814

1. The first part of the book is devoted to a general survey of the history of the subject. It begins with a brief account of the early attempts to explain the origin of life, and then proceeds to a more detailed consideration of the various theories which have been advanced from time to time. The author's own views are stated in a clear and concise manner, and are supported by a wealth of references to the original sources.

Phone #s

Mike (45) 971-8651

Michael (45) 627-8074

Jan (510) 684-9045

Point 008 - 3.1 km S finca

9 - 2.5 km S 11.46095, 85.50835 782m

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Sean M. Rovito

2010

Catalogue #975-1443

Costa Rica: Alajuela

Guatemala: El Quiche, Huehuetenango

Mexico: Chiapas, Distrito Federal,
Guerrero, Hidalgo, Oaxaca, Puebla,
Queretaro, San Luis Potosi, Tamaulipas,
Veracruz

Rovito, Sean
2010

Catalogue

On trail to Cerro Macalajau, ^{3.4} Km N (by rd) of ^{center of} Uspantán on road to Caracol, Depto. El Quiché, Guatemala

Jan. 14 15.37532°N, 90.88936°W [$\pm 10m$], 2763 m elev.

SMR975 Bolitoglossa rostrata

976 " "

FF-liver 1/17/10

RNA Later-liver 1/17/10

15.37752°N, 90.87268°W [$\pm 7m$], 2396 m elev.

SMR977 Bolitoglossa cuchumatana juv.

FF-whole animal 1/17/10

978 " " juv.

FF-liver 1/17/10

979 " " juv.

" "

Jan. 15 SMR980 Bolitoglossa cuchumatana juv.

FF-liver 1/17/10

981 " " adult

" "

982 " " adult

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983 " " adult

" "

984 " " adult ♀

" "

985 " " adult

RNA Later-liver 1/17/10

986 " " adult

" "

987 " " subadult

" "

988 " " subadult

" "

989 " " "

" "

990 Plectrohyla adult

FF-liver 1/20/10

991 " " adult ♀

FF-liver 1/17/10

992 " " juv.

RNA Later-liver 1/17/10

all FF samples to MVZ, all RNA Later to Instituto de Biología, UNAM

Experiment No. _____

AIM: To determine the rate of reaction between $\text{Na}_2\text{S}_2\text{O}_8$ and KI in the presence of $\text{K}_2\text{Cr}_2\text{O}_7$ as a catalyst.

Principle: The reaction between $\text{Na}_2\text{S}_2\text{O}_8$ and KI is as follows:

$$\text{Na}_2\text{S}_2\text{O}_8 + 2\text{KI} \rightarrow \text{Na}_2\text{SO}_4 + \text{K}_2\text{SO}_4 + \text{I}_2$$

The reaction is catalyzed by $\text{K}_2\text{Cr}_2\text{O}_7$. The rate of reaction is determined by measuring the time taken for the appearance of a blue color due to the formation of I_2 .

Sl. No.	Conc. of $\text{Na}_2\text{S}_2\text{O}_8$ (M)	Conc. of KI (M)	Time taken (sec)	Rate of reaction
1	0.01	0.01	120	$\frac{1}{120}$
2	0.02	0.01	60	$\frac{1}{60}$
3	0.03	0.01	40	$\frac{1}{40}$
4	0.04	0.01	30	$\frac{1}{30}$
5	0.05	0.01	24	$\frac{1}{24}$
6	0.01	0.02	80	$\frac{1}{80}$
7	0.01	0.03	60	$\frac{1}{60}$
8	0.01	0.04	48	$\frac{1}{48}$
9	0.01	0.05	40	$\frac{1}{40}$
10	0.01	0.06	32	$\frac{1}{32}$

Rovito, Sean
2010

Catalogue

Laj Chimal community forest, Mpio. Uspantán, Depto. El Quiché, Guatemala

Jan. 15 15.45664°N, 90.81271°W [$\pm 9m$], 2230m elev.

SMR 993 Bolitoglossa cuchumatana adult FF-liver 1/17/10
994 " " juv. RNALater - ^{liver}intestine 1/17/10

Ruined church above Desengaño, 12.0km NW (by rd) of center of Uspantán, Depto. El Quiché, Guatemala

Jan. 16 15.43685°N, 90.87318°W [$\pm 9m$], 1764m elev.

SMR 995 B. cuchumatana juv. RNALater-liver 1/17/10

Forest above Desengaño, 12.0km NW (by rd) of center of Uspantán, Depto. El Quiché, Guatemala

Jan. 16 15.43812°N, 90.86003°W [$\pm 9m$], 2078m elev.

SMR 996 B. cuchumatana juv. RNALater-liver 1/17/10

997 " " adult FF-liver 1/17/10

998 " " F-liver 1/17/09

999 Sibon juv. FF-liver 1/20/09

- SMR 998 died in captivity, tissue not flash frozen

On road from Laj Chimal to San Pablo El Baldío, 28.5km N (by rd) of center of Uspantán, Depto. El Quiché, Guatemala

Jan. 16 15.46218°N, 90.78607°W [$\pm 20m$], 2432m elev.

SMR 1000 Bolitoglossa hartwegi adult ♀ FF RNALater-liver 1/17/10

SMR 1001 Craugastor adult FF-liver - 1/17/10

- SMR 1000 specimen to MVZ

tissue to MVZ: CRVA 2232 B. lincolni

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Rovito, Sean
2010

Catalogue

Forest 1.9 km (by rd) from Laj Chime1 on road to Uspantán, 23.0 km N
(by rd) of center of Uspantán, Depto. El Quiché, Guatemala

Jan. 17 15.45061°N, 90.80149°W [± 6 m], 2066m elev.

SMR 1002 Bolitoglossa cuchumatana adult FF-liver 1/17/10

1003 " " " "

1004 " " RNALater-liver 1/17/10

- to MVZ $\rightarrow$ tissue of Plectrohyla, CRVA 2237

0.4 km (by rd) E of Uspantán-Caracol road on road to Los Canaques,
9.7 km N (by rd) of center of Uspantán, Depto. El Quiché, Guatemala

Jan. 17 15.38444°N, 90.84493°W [± 5 m], 2270m elev.

SMR 1005 Plectrohyla RNALater-liver 1/17/10

1006 B. cuchumatana FF-liver 1/17/10

1007 " " " "

1008 " " " "

1009 " " RNALater-liver 1/17/10

1010 " " " "

Los Canaques communal forest, 11.9 km NE (by rd) from Uspantán on road
to los Canaques, Depto. El Quiché, Guatemala

Jan. 18 15.38594°N, 90.83158°W [± 5 m], 2043m elev.

SMR 1011 ~~B. cuchumatana~~ VOID ~~RNALater-liver 1/20/10~~

1012 " " VOID " "

1013 " " VOID FF-liver 1/20/10

1014 " " VOID " "

1015 Bolitoglossa lincolni FF
RNALater-liver 1/20/10

- specimen SMR 1015 to MVZ

التحليل

تمت في 10/10/2019
بالتعاون مع
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بالتعاون مع
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ovito, Sean
2010

Catalogue

SMR1016 VOID - throw out tissue

Las Vegas, 11.1 Km S (by rd) from RN9 at Yulhuitz, Sierra de los
Cuchumatanes, Depto. Huehuetenango, Guatemala

Jan. 20 15.55234°N, 91.42972°W [$\pm 7m$], 2158m elev.

SMR1017 Plectrohyla

FF-liver 1/22/10

1018 "

RNA Later-liver 1/20/10

San Ramon 2.9 Km NE (by air) of center of Barrillas, Depto.
Huehuetenango, Guatemala

Jan. 21 15.86639°N, 91.21474°W [$\pm 11m$], 761m elev.

SMR1019 Bolitoglossa rufescens adult ♀

FF intestine
RNA Later-liver 1/21/09

1020 "

" adult ♂

"

"

1021 "

" subadult

"

"

- SMR1019 to UNAM, 1020+1021 to MVZ; also tissue CRVA 2256-2258

SMR1028 Smilisca baudinii

adult ♀

(B. rufescens)
FF-liver 1/21/09

El Valle, 4.5 Km N (by rd) of RN9 at Aldea La Concepción,
Depto. Huehuetenango, Guatemala

Jan. 21 15.86812°N, 91.27435°W [$\pm 5m$], 1095m elev.

SMR1022 B. rufescens adult ♂

FF intestine
RNA Later-liver 1/21/10

1023

"

"

adult ♂

"

"

1024

"

"

adult ♂

"

"

1025

"

"

adult

"

"

1026

Smilisca baudinii

adult ♀

FF-liver 1/21/10

1027

"

"

adult ♀

RNA Later-liver 1/21/10

- SMR 1022+1023 to UNAM, 1024+1025 to MVZ; also tissue CRVA 2261-2263
(B. rufescens)

Appendix

Table 1: Summary of data

The following table shows the results of the experiment. The first column represents the time taken for the reaction to occur, and the second column represents the amount of product formed.

The data shows that the reaction rate increases with increasing temperature.

Time (s)	Product (g)
10	0.5
20	1.0
30	1.5
40	2.0
50	2.5

The following table shows the results of the experiment. The first column represents the time taken for the reaction to occur, and the second column represents the amount of product formed.

Time (s)	Product (g)
10	0.5
20	1.0
30	1.5
40	2.0
50	2.5

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20	1.0
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50	2.5

The data shows that the reaction rate increases with increasing temperature.

The following table shows the results of the experiment. The first column represents the time taken for the reaction to occur, and the second column represents the amount of product formed.

ovito, Sean
2010

Catalogue

Siglo Veinte Ermin, 17.1 Km NE (by rd) of ^{center of} Barillas on road to Ixcán,
then 21.3 Km (by rd) of highway on road to Flor de Café, Chiapas,
Depto. Huehuetenango, Guatemala

Jan. 22 15.97990°N, 91.25656°W [$\pm 4m$], 698 m elev.

SMR1029 Bolitoglossa rufescens adult ♀ FF RNA Later - liver intestine 1/22/10

Las Victorias Chancón, 17.1 Km NE (by rd) of ^{center of} Barillas on road to Ixcán,
then 17.3 Km N (by rd) of highway on road to Flor de Café, Chiapas,
Depto. Huehuetenango, Guatemala

Jan. 22 15.95501°N, 91.24451°W [$\pm 5m$], 687 m elev.

SMR1030 B. rufescens adult ♂ FF RNA Later - liver intestine 1/22/10

- also tissue B. rufescens, CRVA2266; SMR1030 specimen to UNAM

Palmiras de Chiblac, 17.1 Km NE (by rd) of center of Barillas, then 7.4 Km NW (by rd) on road to Santa María Yuhuitz, Depto. Huehuetenango, Guatemala

Jan. 22 15.88393°N, 91.26033°W [$\pm 8m$], 1216 m elev.

SMR1031 B. rufescens adult ♂ FF RNA Later - liver intestine 1/22/10

1032 " " adult ♂ " "

- also tissue CRVA2268; SMR1031 to MVZ, 1032 to UNAM

1.8 Km SE (by rd) of San José Maxbal on road to Barillas, Depto. Huehuetenango, Guatemala

Jan. 23 15.94695°N, 91.30479°W [$\pm 6m$], 1476 m elev.

SMR1033 Bolitoglossa hartwegi adult ♀ FF - liver 1/24/10

1034 " " adult ♂ " "

1035 " " adult ♂ " "

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Rovito, Sean
2010

Catalogue

Stream on NW side of San José Maxbal, Depto. Huehuetenango, Guatemala

Jan. 23 15.95842°N, 91.31907°W [± 11 m], 1457m elev.

SMR1036 Plectrohyla ixil adult ♀

FF - liver 1/25/10

1037 " " adult ♂

RNA Later - liver 1/24/10

1038 Bolitoglossa ^{hartwegi?} rufescens adult

FF
RNA Later - liver 1/24/10

- SMR1038 to MVZ

1.8 Km SE (by rd) of San José Maxbal on road to Barrillas, Depto. Huehuetenango, Guatemala

Jan. 24 15.94695°N, 91.30479°W [± 6 m], 1476m elev.

SMR1039 Bolitoglossa hartwegi adult ♀

RNA Later - liver 1/24/10

1040 " " adult ♂

" "

1041 " " adult ♂

" "

5.1 Km S (by rd) of San José Maxbal on unfinished road to Yulhutz Grande, Depto. Huehuetenango, Guatemala

Jan. 24 15.92432°N, 91.30930°W [± 5 m], 1552m elev.

SMR1042 B. ~~rufescens~~ hartwegi juv.

FF
RNA Later - liver 1/25/10

1043 Bromelid hyla bromeliacia adult

FF - liver 1/25/10

- SMR1042 specimen to UNAM

4.5 Km S (by rd) of San José Maxbal on unfinished road to Yulhutz Grande, Depto. Huehuetenango, Guatemala

Jan. 24 15.92696°N, 91.30552°W [± 5 m], 1508m elev.

SMR1044 Bolitoglossa cuchumatana adult ♀

FF - liver 1/24/10

1045 Bufo campbelli adult

FF - liver 1/25/10

1. The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom. The second part of the paper is devoted to a detailed analysis of the experimental results. It is shown that the results are in good agreement with the theoretical predictions.

2. The third part of the paper is devoted to a discussion of the results of the experiment. It is shown that the results are in good agreement with the theoretical predictions. The fourth part of the paper is devoted to a discussion of the results of the experiment. It is shown that the results are in good agreement with the theoretical predictions.

3. The fifth part of the paper is devoted to a discussion of the results of the experiment. It is shown that the results are in good agreement with the theoretical predictions. The sixth part of the paper is devoted to a discussion of the results of the experiment. It is shown that the results are in good agreement with the theoretical predictions.

4. The seventh part of the paper is devoted to a discussion of the results of the experiment. It is shown that the results are in good agreement with the theoretical predictions. The eighth part of the paper is devoted to a discussion of the results of the experiment. It is shown that the results are in good agreement with the theoretical predictions.

Novito, Sean
2010

Catalogue

3.6 km SE (by rd) of San José Maxbal on road to Barrillas, Depto. Huehuetenango,
Guatemala

Jan. 24 15.93240°N, 91.30088°W [± 5 m], 1449m elev.

SMR1046 Bradytriton silus adult

FF-liver 1/25/10

Jan. 25 SMR1048 Craugastor

adult ♀

FF-liver 1/26/10

1049 "

"

"

1050 Anolis

adult ♂

"

"

1.8 Km SE (by rd) of San José Maxbal on road to Barrillas, Depto. Huehuetenango,
Guatemala

Jan. 25 15.94647°N, 91.30732°W [± 15 m], 1422m elev.

SMR1047 shrew

adult

FF-liver 1/25/10

SMR1051 Nyctanolis pernix adult ♂

FF
RNA later-liver 1/26/10

1052 "

"

adult ♀

FF-liver 1/26/10

1053 "

"

juv.

FF-liver
intestine 1/26/10

1054 Bolitoglossa cuchumatana adult ♀

FF-liver 1/26/10

1055 Bolitoglossa hartwegi

"

"

2.1 Km SE (by rd) of San José Maxbal on road to Barrillas, Depto.
Huehuetenango, Guatemala

Jan. 25 15.94339°N, 91.30602°W [± 7 m], 1425m elev.

SMR1056 Bolitoglossa hartwegi

FF-liver 1/26/10

San José Maxbal, Depto. Huehuetenango, Guatemala

Jan. 26 15.95720°N, 91.31537°W [± 8 m], 1393m elev.

SMR1057 Imantodes

FF-liver 1/26/10

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Rovito, Sean
2010

Catalogue

San Bernardo, ca. 5 km SW (by rd) of La Esperanza, on MX175,
Sierra de Juárez, Oaxaca, Mexico

Mar. 18 17.60649°N, 96.38454°W [$\pm 6m$], 1794m elev.

SMR1058 Xenosaurus "grandis" adult

- kept alive for Luis Canseco

Asdeadero, 5.2 km S (by rd) of Carrizal de Bravos, on road to
Atayac, Guerrero, Mexico

Apr. 24 17.58629°N, 99.83475°W [$\pm 6m$], 2659m elev.

SMR1059 Craugastor saltator? adult ♀ RNALater-liver 4/26/10

SMR1060 Thorius omiltemi adult ♀ RNALater-liver, tail 4/26/10

1061 " " adult ♂ RNALater-liver 4/26/10

1062 " " juv. " "

1063 " " adult ♂ " "

1064 " " adult ♂ " "

Cueva de los Potrerillos, 200m S of Potrerillos and 2 Km W (by rd)
of center of Ahuacatlan, San Luis Potosí, Mexico

May 31 21.30706°N, 99.06547°W [$\pm 9m$], 1195m elev.

SMR1065 Eleutherodactylus cystignathoides adult RNALater-liver 6/2/10

(by rd)

6.8 km SW of Tlanguistengo on road to Zacualtipan, Hidalgo, Mexico

June 2 20.70242°N, 98.66727°W [$\pm 5m$], 2029m elev.

SMR1066 Chiropterotriton adult ♀ RNALater-liver 6/2/10

1067 " " adult ♂ " "

1068 " " juv. " "

There is a great deal of work to be done in the
department of the school. The first thing to be
done is to get the school in order. The second
thing is to get the teachers in order. The third
thing is to get the students in order.

The first thing to be done is to get the school in order. This
means that the school should be clean and well-kept.
The second thing to be done is to get the teachers in order.
This means that the teachers should be well-trained and
well-paid. The third thing to be done is to get the students
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Rovito, Sean

2010

Catalogue

Reserva Nectandra, 0.3 Km SW of ^(by air) guard house, Alajuela, Costa Rica
June 10 10.18330°N, 84.50959°W [$\pm 6m$], 1128m elev.
SMR1069 Rana warszewitschii adult RNA Later - liver 6/11/10

Reserva Nectandra, vicinity of guard house, Alajuela, Costa Rica
June 10 ~~10.18564°N, 84.50787°W [$\pm 10m$], 1097m elev.~~
SMR1070 Rana warszewitschii adult RNA Later - liver 6/11/10
1071 Espadarana prosoblepon adult ♂ " "
1072 ~~1072~~ Diasporus hylaetiformis adult RNA Later - L 6/12/10
1073 Crangasor fitzingeri adult ♀ RNA Later - liver 6/11/10
1074 RNA Later - L, I 6/11/10
1075 Crangasor crassidigitus ♂ adult RNA Later - L 6/12/10
1076 Diasporus hylaetiformis adult ♂ " "
1077 Anolis limifrons adult ♀ RNA Later - L 6/14/10
1078 Anolis limifrons adult ♀ " "
1079 Anolis capito adult RNA Later - L 6/12/10

Reserva Nectandra, southern boundary 0.6 Km SW (by air) of guard house, Alajuela, Costa Rica
10.18298°N, 84.51262°W [$\pm 8m$], 1168m elev.
June 10 SMR1080 Isthmohyla pseudopuma adult ♀ RNA Later - L 6/12/10
- brought by Freddy SMR10918 " " adult ♂ RNA Later - L 6/13/10

Reserva Nectandra, between parking area and reception building, trail A, Alajuela, Costa Rica
June 10 10.18620°N, 84.50747°W [$\pm 8m$], 1094m elev.
SMR1081 Crangasor branfordii adult ♂ RNA Later - L 6/12/10
1082 Crangasor crassidigitus adult ♀ RNA Later - liver 6/11/10
1083 Siber annulatus adult " RNA Later - liver 6/12/10

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Rovito, Sean
2010

Catalogue

Reserva Nectandra, reception building, Alajuela, Costa Rica

June 10 10.18734°N, 84.50788°W [± 19 m], 1100m elev.

~~SMR 1085~~

Pristimantis

SMR 1085 ~~Craugastor~~ cruentus adult

RNA Later - L 6/12/10

1086 Anolis humilis adult ♂

RNA Later - L 6/13/10

Reserva Nectandra, between mirador and visitors center, Alajuela, Costa Rica

June 10 10.18623°N, 84.50849°W [± 7 m], 1090m elev.

SMR 1087 Sachatamia ilex adult

RNA Later - L, I 6/11/10

1088 Diasporus hylaeformis adult

RNA Later - L 6/12/10

1084 Craugastor bransfordii adult ♂

RNA Later - L, I 6/12/10

Reserva Nectandra, vicinity of guard house, Alajuela, Costa Rica

June 11 10.18564°N, 84.50787°W [± 10 m], 1097m elev.

SMR 1089 Atropoides nummifer adult female RNA Later - L 6/11/10

- found recently DOR just outside reserve gate on road

SMR 1090 Ninia maculata adult ♀

RNA Later - L 6/12/10

SMR 1091 Espadarana prosoblepon adult

"

"

1092 Anolis oxylophus adult ♀

RNA Later - L 6/13/10

Reserva Nectandra, trail C about 200m from trail end, Alajuela, Costa Rica

June 11 10.18570°N, 84.50919°W [± 12 m], 1087m elev.

SMR 1093 ~~Craugastor~~ Pristimantis cruentus adult

RNA Later - L 6/12/10

Reserva Nectandra, greenhouses near guard house, Alajuela, Costa Rica

June 11 10.18503°N, 84.50809°W [± 8 m], 1096m elev.

~~SMR 1094~~

1095 Duellmanohyla ruficulis adult ♀

RNA Later - L 6/12/10

Rovito, Sean
2010

Catalogue

Reserva Nectandra, vicinity of guard house, Alajuela, Costa Rica
June 11 10.18564°N, 84.50787°W [± 10 m], 1097m elev.
SMR1094 Anolis capito juv. RNALater - L 6/14/10
- brought by Fredi.

Reserva Nectandra, northern limit trail 0.9 Km ^(by air) W of guard house, Alajuela, Costa Rica
June 11 10.18845°N, 84.51502°W [± 9 m], 1123m elev.
SMR1096 Craugastor fitzingeri adult RNALater - L 6/13/10
- brought by Fredi.

Reserva Nectandra, vicinity of guard house, Alajuela, Costa Rica
June 12 10.18564°N, 84.50787°W [± 10 m], 1097m elev.
SMR1097 Anolis humilis adult ♂ RNALater - L 6/14/10
- brought by Fredi.

La Persea, Reserva Nectandra, E side of San Ramón - Fortuna Hwy, Alajuela, Costa Rica
June 12 10.18270°N, 84.50665°W [± 3 m], 1147m elev.
SMR1098 Anolis biporcatus juv. RNALater - L 6/14/10
- brought by Fredi.

Reserva Nectandra, northern limit 0.4 Km ^(by air) NW of guard house, Alajuela, Costa Rica
June 12 10.18868°N, 84.50930°W [± 3 m], 1075m elev.
SMR ¹¹⁰⁰ ~~1099~~ Smilisca phaeota adult ♂ RNALater - L 6/13/10
11001 " " adult ♂ " "

Reserva Nectandra, northern limit 0.4 Km ^(by air) NW of guard house, Alajuela, Costa Rica
June 12 10.18808°N, 84.51096°W [± 5 m], 1111m elev.
SMR1102 Nototriton gamezi adult RNALater - L 6/15/10

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Rovito, Sean
2010

Catalogue

Reserva Nectandra, northern limit 0.8 km^{WNW} (by air) of guard house,
Alajuela, Costa Rica

June 12 10.18830°N, 84.51421°W [± 8 m], 1092m elev.

SMR1103 Sphenomorphus cherriei adult RNALater-L 6/13/10

300m N of entrance to Reserva Nectandra on San Ramon-Fortuna highway,
Alajuela, Costa Rica

June 13 10.187785°N, 84.50433°W [± 8 m], 1074m elev.

SMR1104 Micrurus nigrocinctus juv. DOR RNALater-L 6/13/10

1105 Anolis oxylophus adult ♀ RNALater-L 6/14/10

- Micrurus in fairly bad shape, tissue may not work

1108 Ninia maculata adult DOR RNALater-L 6/13/10

ca 0.5km N of entrance to Reserva Nectandra on San Ramon-Fortuna highway,
Alajuela, Costa Rica

June 13 10.18885°N, 84.50436°W [± 6 m], 1046m elev.

SMR1106 ~~Espadarana~~ prosobleph adult ♀ RNALater-L 6/13/10

1107 Bufo coniferus adult " "

Reserva Nectandra, Trail 4, 0.7km SW (by air) of guard house, Alajuela, Costa Rica

June 13 10.18386°N, 84.51810°W [± 6 m], 1194m elev.

SMR1109 Rhadinea decorata adult RNALater-L 6/13/10

Reserva Nectandra, southern limit, 0.5 km SW (by air) of guard house, Alajuela, Costa Rica

June 13 10.18310°N, 84.51444°W [± 9 m], 1178m elev.

SMR1110 Rhadinea decorata adult RNALater-L 6/13/10

English

1. The first part of the lesson was devoted to a review of the material covered in the previous lesson. The teacher asked the students to recall the main points of the lesson and to explain the meaning of the new words.

2. The second part of the lesson was devoted to the study of the new material. The teacher presented the students with a new text and asked them to read it carefully. The students were then asked to answer the questions which followed the text.

3. The third part of the lesson was devoted to the practice of the new material. The teacher gave the students a series of exercises to do. The students were asked to write a short composition on the subject of the lesson. The teacher then corrected the compositions and gave the students feedback on their work.

4. The fourth part of the lesson was devoted to the revision of the material. The teacher asked the students to recall the main points of the lesson and to explain the meaning of the new words. The teacher then gave the students a series of exercises to do.

5. The fifth part of the lesson was devoted to the summary of the lesson. The teacher asked the students to recall the main points of the lesson and to explain the meaning of the new words. The teacher then gave the students a series of exercises to do.

Rovito, Sean
2010

Catalogue

La Persea, E side of San Ramon-Fortuna Hwy, Reserva Nectandra, Alajuela, Costa Rica

June 13 10.18088°N, 84.50535°W [$\pm 7m$], 1119m elev.

SMR1111 Craugastor bransfordi adult ♀ RNA Later - L 6/15/10
-brought by Fredi

Reserva Nectandra, vicinity of guard house, Alajuela, Costa Rica

10.18564°N, 84.50787°W [$\pm 10m$], 1097m elev.

June 12 SMR1112 Isthmohyla pseudopuma adult DOR RNA Later - L 6/12/10

June 14 SMR1113 Craugastor fitzingeri adult ♀ RNA Later - L 6/15/10

SMR1114 ~~Craugastor~~ Lepidoblepharis xanthostigma adult " "

SMR1115 PtychoGLOSSUS plicatus adult " "

La Persea, E side of San Ramon-Fortuna Hwy, Reserva Nectandra, Alajuela, Costa Rica

June 14 10.18088°N, 84.50535°W [$\pm 7m$], 1119m elev.

SMR1116 Oedipina uniformis adult RNA Later - L 6/15/10

SMR1117 Ninia maculata juv. RNA Later - L 6/15/10

SMR1118 Micrurus nigrocinctus adult DOR RNA Later - L 6/14/10

E side of La Ocotea, 1.3 km NW (by air) of guard house, Reserva Nectandra, Alajuela, Costa Rica

June 14 10.19127°N, 84.51848°W [$\pm 5m$], 1085m elev.

SMR1119 Micrurus nigrocinctus adult ♀ RNA Later - L 6/15/10

Northern limit of La Ocotea, 1.5 km WNW (by air) of guard house, Reserva Nectandra, Alajuela, Costa Rica

June 14 SMR1120 Anolis oxylophus adult ♂ RNA Later - L 6/15/10
10.19214°N, 84.52000°W [$\pm 7m$], 1048m elev.

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Levito, Sean
2010

Catalogue

- Reserva Nectandra, trail C, 0.4 km SW (by air) of guard house Alajuela, Costa Rica
- June 14 10.18365°N, 84.51022°W [± 10 m], 1147m elev.
SMR1121 Pristimantes cruentus adult RNA Later-L 6/15/10
- Reserva Nectandra, vicinity of guard house, Alajuela, Costa Rica
- June 15 10.18564°N, 84.50787°W [± 10 m], 1097m elev.
SMR1122 Rhadinea decorata adult RNA Later-L 6/15/10
~~SMR1123~~
- La Persea, Reserva Nectandra, E side of San Ramon-Fortuna highway, Alajuela, Costa Rica
- June 16 10.18088°N, 84.50535°W [± 7 m], 1119m elev.
SMR1123 Lepidoblepharis xanthostigma adult RNA Later-L 6/16/10
SMR1124 " " juv. " "
- Reserva Nectandra, trail F, 0.5 km W (by air) of guard house, Alajuela, Costa Rica
- June 16 10.18573°N, 84.51232°W [± 10 m], 1141m elev.
SMR1125 Diploglossus bilobatus adult ♂ RNA Later-L 6/16/10
- Finca Ocotea, 8.7 km NW (by rd) of center of Zarcera, Alajuela, Costa Rica
- June 16 10.22721°N, 84.34819°W [± 12 m], 2143m elev.
SMR1126 Craugastor podiciferus adult RNA Later-L 6/17/10
SMR1127 " " adult " "
SMR1128 " " adult ♀ " "
SMR1129 Anolis tropidolepis adult ♂ " "
SMR1130 Anolis tropidolepis adult ♂ " "

Page 1

1. The first part of the report deals with the general situation of the company. It is a very short and concise summary of the main points of the report. It is written in a very clear and simple language, which is easy to understand. It is a very good example of a short and concise summary of a report.

2. The second part of the report deals with the financial situation of the company. It is a very short and concise summary of the main points of the report. It is written in a very clear and simple language, which is easy to understand. It is a very good example of a short and concise summary of a report.

3. The third part of the report deals with the operational situation of the company. It is a very short and concise summary of the main points of the report. It is written in a very clear and simple language, which is easy to understand. It is a very good example of a short and concise summary of a report.

4. The fourth part of the report deals with the human resources situation of the company. It is a very short and concise summary of the main points of the report. It is written in a very clear and simple language, which is easy to understand. It is a very good example of a short and concise summary of a report.

5. The fifth part of the report deals with the marketing situation of the company. It is a very short and concise summary of the main points of the report. It is written in a very clear and simple language, which is easy to understand. It is a very good example of a short and concise summary of a report.

ovito, Sean
2010

Catalogue

Finca Ocotea, 8.7 km NW (by rd) of center of Zarcero, Alajuela, Costa Rica

June 16 10.22721°N, 84.34819°W [± 12 m], 2143m elev.

SMR1131 Anolis tropidolepis adult ♀ RNALater-L 6/17/10

numbers SMR1132-1155 assigned to specimens from August 2008

Sierra de Juárez, Oaxaca trip that were prepared with temporary numbers by Juan Carlos Winfield

"El Coni", small cave 900m SSE of center of Durango, Municipio Zimapán, Parque Nacional los Marcales, Hidalgo, Mexico

June 27 20.88821°N, 99.22618°W [± 9 m], 2234m elev.

SMR1156 Chiropteratrion masaneri adult ♀ RNALater-L 6/29/10

1157 " " juv. RNALater-L, I 6/29/10

1158 Chiropteratrion magnipes adult ♂ RNALater-L 6/29/10

1159 " " adult ♂ " "

1160 " " juv. " "

1161 " " juv. " "

Avenida 1 Poniente, 0.8 km W (by road) of central plaza, Fortín de las Flores, Veracruz, Mexico

July 6 18.89668°N, 97.00600°W [± 7 m], 1004m elev.

SMR1162 Geophis semidoliatus adult ♂ RNALater-L 7/8/10

1163 " " adult ♂ " "

Nacimiento del Río Atoyac, 7.4 km NNW (by rd) of Patrero Viejo, Veracruz, Mexico

July 6 18.92958°N, 96.88160°W [± 9 m], 640m elev.

SMR1164 Bufo valliceps adult RNALater-L 7/8/10

1. The first part of the report deals with the general situation of the country and the progress of the work during the year.

2. The second part of the report deals with the results of the work done during the year and the progress of the work during the year.

3. The third part of the report deals with the results of the work done during the year and the progress of the work during the year.

4. The fourth part of the report deals with the results of the work done during the year and the progress of the work during the year.

5. The fifth part of the report deals with the results of the work done during the year and the progress of the work during the year.

Rovito, Sean
2010

Catalogue

Avenida 2 and Calle 7, wooded lot across street from Hotel Fortín de las Flores, Fortín de las Flores, Veracruz, Mexico

July 7

18.90120°N, 96.99551°W [± 7 m], 1011m elev.

SMR1165 Ninia sebae adult ♀ RNALater-L 7/8/10

1166 Ninia diademata adult ♂ " "

Avenida 4 and Calle 4, Fortín de las Flores, Veracruz, Mexico

July 7

18.90136°N, 97.00001°W [± 9 m], 1015m elev.

SMR1167 Bolitoglossa platydactyla adult ♀ RNALater-L 7/8/10

1168 " " adult ♀ " "

1169 " " adult " "

Avenida 1 Poniente, 1.2 km W (by rd) of central plaza, Fortín de las Flores, Veracruz, Mexico

July 7

18.89590°N, 97.00892°W [± 7 m], 989m elev.

SMR1170 Eleutherodactylus leprus adult RNALater-L 7/8/10

16.4 km N (by rd) of intersection with MX200 on road from Tapachula to Finca Nueva Alemania, Chiapas, Mexico

July 10

15.06452°N, 92.30842°W [± 8 m], 509m elev.

SMR1171 ~~Microtus~~ adult RNALater-L 7/10/10
Microtus (by rd)

Finca Nueva Alemania, 38.3 km N of intersection with MX200 on road from Tapachula, Chiapas, Mexico

July 10

15.11542°N, 92.30231°W [± 7 m], 506m elev.

SMR1172 Sphenomorphus assatus juv. RNALater-L 7/11/10

11723 Bufo juv. " "

The first thing I noticed when I stepped out of the car was the cold. It was a sharp contrast to the warm blanket I had been sitting under. I looked around, trying to get my bearings. The street was empty, and the houses were old and weathered. I felt a sense of isolation, but also a sense of peace. I had found a quiet corner of the world, and I was going to make it my own.

I walked down the street, my feet crunching on the dry leaves. The air was crisp and clean, and I could hear the distant sound of a church bell. I felt a sense of purpose, a sense that I was on a journey. I had come here for a reason, and I was going to find it. I was going to find a place where I belonged, a place where I could call home.

I had heard that this was a good place to live. It was quiet, it was safe, and it was beautiful. I had seen the pictures, and I had read the descriptions. I had been told that this was a place where I could find a sense of community, a place where I could find a sense of belonging. I was going to find out if they were right.

I had been told that this was a place where I could find a sense of purpose, a sense that I was on a journey. I had come here for a reason, and I was going to find it. I was going to find a place where I belonged, a place where I could call home.

I had heard that this was a good place to live. It was quiet, it was safe, and it was beautiful. I had seen the pictures, and I had read the descriptions. I had been told that this was a place where I could find a sense of community, a place where I could find a sense of belonging. I was going to find out if they were right.

Rovito, Sean
2010

Catalogue

Finca Nueva Alemania, 38.3 Km N of intersection with MX200 on road from Tapachula, Chiapas, Mexico

July 10

15.11542°N, 92.30231°W [$\pm 7m$], 506m elev.

SMR1174	<u>Bufo</u>	adult ♀	RNA Later - L 7/11/10
1175	<u>Craugastor rhodophis</u>	adult ♀	" "
1176	<u>Eleutherodactylus rubrimaculatus</u>	juv.	" "
1177	"	" juv.	" "

21.6 Km N (by rd) of intersection with MX200 on road from Tapachula to Finca Nueva Alemania, Chiapas, Mexico

July 10

15.07944°N, 92.31474°W [$\pm 10m$], 423m elev.

SMR1178	~~Leptodeira~~ <u>Craugastor</u>	adult ♀	RNA Later - L 7/11/10
1179	<u>Rana</u>	adult	" "

17.1 Km N (by rd) of intersection with MX200 on road from Tapachula to Finca Nueva Alemania, Chiapas, Mexico

July 11

15.05190°N, 92.24313°W [$\pm 5m$], 497m elev.

SMR1180	<u>Ameiva undulata</u>	juv.	RNA Later - L 7/11/10
- killed accidentally while searching, kept on ice all day			

14.0 Km N (by rd) of intersection with MX200 on road from Tapachula to Finca Nueva Alemania, Chiapas, Mexico

July 11

15.03312°N, 92.24277°W [$\pm 8m$], 554m elev.

SMR1181	<u>Bolitoglossa flaviventris</u>	adult ♀	RNA Later L, I 7/11/10
1182	<u>Bolitoglossa occidentalis</u>	adult ♀	RNA Later - L 7/11/10
1183	"	adult ♀	" "
1184	"	adult ♀	" "

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a very important document, as it sets out the policy of the new administration. The President states that he is committed to the principles of liberty and justice for all, and that he will work to maintain the Union.

2. The second part of the document is a report from the Secretary of the Treasury, dated January 1, 1861. It provides a detailed account of the financial state of the country, and outlines the measures that will be taken to manage the government's finances.

3. The third part of the document is a report from the Secretary of the Interior, dated January 1, 1861. It discusses the state of the public lands, and the measures that will be taken to manage them. The Secretary states that the government is committed to the principle of conservation, and that it will work to protect the natural resources of the country.

4. The fourth part of the document is a report from the Secretary of the War, dated January 1, 1861. It provides a detailed account of the military forces, and outlines the measures that will be taken to maintain the country's defense.

5. The fifth part of the document is a report from the Secretary of the Navy, dated January 1, 1861. It discusses the state of the naval forces, and the measures that will be taken to maintain the country's maritime power. The Secretary states that the government is committed to the principle of peace, and that it will work to maintain the country's neutrality.

6. The sixth part of the document is a report from the Secretary of the State, dated January 1, 1861. It provides a detailed account of the foreign relations of the country, and outlines the measures that will be taken to maintain the country's diplomatic position.

7. The seventh part of the document is a report from the Secretary of the Education, dated January 1, 1861. It discusses the state of the public schools, and the measures that will be taken to improve the quality of education. The Secretary states that the government is committed to the principle of equal opportunity, and that it will work to ensure that all children have access to a good education.

8. The eighth part of the document is a report from the Secretary of the Agriculture, dated January 1, 1861. It provides a detailed account of the state of the agricultural industry, and outlines the measures that will be taken to support the farmers.

Rovito, Sean
2010

Catalogue

14.0 Km N (by rd) of intersection with MX200 on road from Tapachula to Finca Nueva Alemanis, Chiapas, Mexico

July 11

15.03312°N, 92.24277°W [$\pm 8m$], 554m elev.

SMR1185 Bolitoglossa occidentalis adult ♂ RNALater-L, I 7/11/10

1186 Trachycephalus venulosus adult ♀ RNALater-L 7/11/10

1187 Rhadinea adult ♀ " "

(by rd)
4.9 Km E of MX200 at Acancoyagua on road to Ovalo Turquia, Chiapas, Mexico

July 13

15.36072°N, 92.63963°W [$\pm 9m$], 181m elev.

SMR1188 ~~Leptodeira~~ adult ♂ RNALater-L 7/15/10

Leptodeira

Small cave 1.3 Km NE (by air) of Rodolfo Figueroa on trail to top of Cerro Baúl, Chiapas, Mexico

July 14

16.55935°N, 94.17205°W [$\pm 8m$], 1592m elev.

SMR1189 Ixalotriton cf niger adult RNALater-L 7/15/10

11890 " " adult

11891 " " adult

11892 " " adult

11893 " " adult

11894 Craugastor



1.4 Km NE (by air) of Rodolfo Figueroa on trail to top of Cerro Baúl, Chiapas, Mexico

July 14

16.55752°N, 94.17053°W [$\pm 9m$], 1636m elev.

SMR1195 Bolitoglossa occidentalis juv. RNALater-L 7/15/10

10/10/19

Received from Mr. J. H. Smith
the sum of £100.00
for the purchase of 100 shares
of the company at 10/- each

£100.00

10/10/19

Received from Mr. J. H. Smith
the sum of £100.00
for the purchase of 100 shares
of the company at 10/- each

£100.00

10/10/19

Received from Mr. J. H. Smith
the sum of £100.00
for the purchase of 100 shares
of the company at 10/- each

ovito, Sean
2010

Catalogue

Aug. 1 Valle de los Fantasma, Sierra de Alvarez, San Luis Potosí, Mexico
22.07245°N, 100.61733°W [± 6 m], 2216m elev.
SMR1196 Plestiodon brevirostris adult RNA Later - L 8/1/10

Aug. 1 4 Km S (by rd) of intersection with road to Gomez Farías on MX85, Tamaulipas, Mexico
22.92667°N, 99.02741°W [± 8 m], 104m elev.
SMR1197 Trachemys scripta adult RNA Later - L 8/1/10

Aug. 1 Taquería at NW corner of central plaza, Gomez Farías, Tamaulipas, Mexico
23.04684°N, 99.15534°W [± 8 m], 377m elev.
SMR1198 Smilisca baudinii adult ♂ RNA Later - L 8/1/10

Aug. 1 Hotel Posada Campestre, Gomez Farías, Tamaulipas, Mexico
23.06067°N, 99.15898°W [± 7 m], 361m elev.
SMR1199 Smilisca baudinii adult ♂ RNA Later - L 8/1/10

Aug. 2 "Cueva del Salto", 6.1 Km WNW (by air) of center of Gomez Farías, Reserva de la Biosfera El Cielo, Tamaulipas, Mexico
23.06543°N, 99.21196°W [± 10 m], 1219m elev.
SMR1200 Pseudoeurycea scandens adult ♂ RNA Later - L 8/1/10
1201 " " adult ♀
1202 " " adult ♀
1203 " " adult ♂
1204 " " adult ♂

Received of Mr. J. H. Smith
the sum of \$100.00
for rent of premises

1900

Received of Mr. J. H. Smith
the sum of \$100.00
for rent of premises

1900

Received of Mr. J. H. Smith
the sum of \$100.00
for rent of premises

1900

Received of Mr. J. H. Smith
the sum of \$100.00
for rent of premises

1900

Received of Mr. J. H. Smith
the sum of \$100.00
for rent of premises

1900

1900

1900

1900

1900

ovito, Sean
2010

Catalogue

Aug. 2 Road from Alta Cima to San José, 2.0 km NE (by air) of San José, Reserva de la Biósfera El Cielo, Tamaulipas, Mexico
23.06142°N, 99.21799°W [$\pm 9m$], 1395m elev.
SMR1205 Pseudoeurycea scandens adult RNALater - L 8/4/10
1206 " " subadult " "
1207 Pseudoeurycea "cephalica" adult ♂ " "
1208 " " adult ♀ " "

Aug. 2 Road from Alta Cima to San José, 1.7 km NE (by air) of San José, Reserva de la Biósfera El Cielo, Tamaulipas, Mexico
23.06062°N, 99.22171°W [$\pm 7m$], 1388m elev.
SMR1209 P. "cephalica" adult RNALater - L 8/4/10
1210 (Syrrophus) cystignathodes adult " "
Eleutherodactylus

Aug. 2 Road from Alta Cima to San José, 1.3 km N (by air) of San José, Reserva de la Biósfera El Cielo, Tamaulipas, Mexico
23.05902°N, 99.22608°W [$\pm 9m$], 1320m elev.
SMR1211 P. "cephalica" adult RNALater - L 8/4/10
1212 Chiropterotriton RNALater - L, I 8/6/10
1213 Pliocercus elapoides RNALater - scale 8/2/10
DOR

Aug. 2 El Valle de Ovni, 1 km N (by air) of San José, Reserva de la Biósfera El Cielo, Tamaulipas, Mexico
23.05687°N, 99.22837°W [$\pm 6m$], 1327m elev.
SMR1214 Chiropterotriton adult ♀ RNALater - L 8/6/10

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Rovito, Jean
2010

Catalogue

Centro Interpretativo Ecológico, Reserva de la Biósfera El Cielo,
Gomez Farías, Tamaulipas, Mexico

23.0111°N, 99.1681°W [error not recorded], 358m elev.

Aug. 2 SMR1215 Bufo nebulifer juvenile RNALater-L 8/4/10

1216 Bothrops asper adult ♀ " "

Aug 3 SMR1217 Eleutherodactylus (Syrrophus) cystignathodes adult RNALater-L

Rancho El Cielo, 7.1 km NNW (by air) of center of Gomez Farías,
Reserva de la Biósfera El Cielo, Tamaulipas, Mexico

Aug. 3 23.10098°N, 99.19228°W [$\pm 9m$], 1213m elev.

SMR1218 Pseudoeurycea "cephalica" adult RNALater-L 8/7/10

1219 " " RNALater-L 8/4/10

1220 " " " "

1221 " " " "

"Cueva de la Salamandra", 100m E of ranch buildings, Rancho El
Cielo, 7.0 km NNW (by air) of center of Gomez Farías, Reserva de la
Biósfera El Cielo, Tamaulipas, Mexico

Aug. 3 23.10124°N, 99.19115°W [$\pm 6m$], 1213m elev.

SMR1222 Pseudoeurycea scandens adult RNALater-L 8/4/10

"Cueva del Cristal", 0.3 km SE of ranch buildings, Rancho El Cielo,
6.8 km NNW (by air) of center of Gomez Farías, Reserva de la Biósfera El
Cielo, Tamaulipas, Mexico

Aug. 3 23.09875°N, 99.19112°W [$\pm 7m$], 1182m elev.

SMR1223 P. scandens adult ♀ RNALater-L 8/4/10

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2010

Catalogue

0.2 km E (by air) of Rancho El Cielo, 6.9 km NNW (by air) of center of Gomez Farías, Reserva de la Biosfera El Cielo, Tamaulipas, Mexico

Aug. 3

23.10043°N, 99.19044°W [$\pm 9m$], 1174m elev.

SMR1224	<u>Chiropterotriton</u>	adult ♂	RNA Later-L, I 8/6/10
1225	<u>Chiropterotriton</u>	adult ♀	" "
1226	<u>Chiropterotriton</u>	adult ♀	" "
1227	<u>Chiropterotriton</u>	juv.	RNA Later-L, I 8/6/10
1228	<u>Chiropterotriton</u>	juv.	↓
1229	<u>Chiropterotriton</u>	juv.	
1230	<u>Chiropterotriton</u>	adult ♂	
1231	<u>Chiropterotriton</u>	juv.	
1232	<u>Chiropterotriton</u>	juv.	
~~1233~~	~~Chiropterotriton~~	~~juv.~~	
1249	<u>Chiropterotriton</u>	juv.	

0.2 km SW (by air) of Rancho El Cielo, 7.0 km NNW (by air) of center of Gomez Farías, Reserva de la Biosfera El Cielo, Tamaulipas, Mexico

Aug. 3

23.09941°N, 99.19374°W [$\pm 10m$], 1157m elev.

SMR1233	<u>Chiropterotriton</u>	RNA Later-L, I 8/6/10
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Rancho El Cielo, 7.1 km NNW (by air) of center of Gomez Farías, Reserva de la Biosfera El Cielo, Tamaulipas, Mexico

Aug. 4

23.10098°N, 99.19228°W [$\pm 9m$], 1213m elev.

SMR1234	<u>Bufo nebulifer</u>	adult	RNA Later-L 8/4/10
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Cueva ~~del~~ Govenia, 4.3 km NW (by air) of center of Gomez Farías on road to Rancho El Cielo, Reserva de la Biosfera El Cielo, Tamaulipas, Mexico

Aug. 4

23.07060°N, 99.18823°W [$\pm 9m$], 997m elev.

SMR1235	<u>Chiropterotriton</u>	adult ♂	RNA Later-L, I 8/6/10
SMR1236	<u>Pseudoeurycea scandens</u>	adult	RNA Later-L 8/4/10

1. The first part of the report is a general introduction to the project. It describes the purpose of the study and the objectives that were set at the beginning. This section also provides a brief overview of the methodology that was used throughout the project.

1.1	Introduction	1.1.1	Background
1.2	Objectives	1.2.1	Primary Objectives
1.3	Methodology	1.3.1	Research Design
1.4	Scope	1.4.1	Geographical Scope
1.5	Limitations	1.5.1	Time Constraints
1.6	Significance	1.6.1	Academic Significance
1.7	Structure	1.7.1	Organization of the Report

2. The second part of the report is a detailed description of the data that was collected during the study. This section includes a thorough analysis of the data and a discussion of the results that were obtained. The data is presented in a clear and concise manner, allowing the reader to understand the findings of the study.

3. The third part of the report is a discussion of the results of the study. This section provides a detailed analysis of the data and a discussion of the implications of the findings. The results are presented in a clear and concise manner, allowing the reader to understand the findings of the study.

4. The fourth part of the report is a conclusion and a list of references. The conclusion summarizes the findings of the study and provides a final statement on the significance of the results. The references list the sources of information that were used throughout the study.

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Catalogue

26.2 km E (by rd) of center of Ciudad del Maíz on MX80, at turnoff
to R.M.O. Las Antenas San Luis Potosí, San Luis Potosí, Mexico

Aug. 4 22.48715°N, 99.47374°W [$\pm 7m$], 1223m elev.

SMR1237	<u>Chiropterotriton multidentatus</u>	juv.	RNA Later-L, I 8/6/10
1238	"	" juv.	RNA Later-L, I 8/6/10
1239	"	" juv.	" "
1240	"	" juv.	" "
1241	"	" juv.	" "
1242	<u>Lepidophymus ocellator</u>	juv.	RNA Later-L 8/7/10
1243	<u>Aspidoscelis gularis</u>	adult ♂	" "
1244	<u>Sceloporus variabilis</u>	juv.	" "
1245	" "	juv.	" "

Aug. 5	SMR1246	<u>Sceloporus variabilis</u>	adult ♀	" "
	1247	<u>Rhadinia gigantea</u>	adult ♀	" "
	1248	<u>Bufo nebulifer</u>	adult	RNA Later-L 8/6/10

La Perra (Ejido El Porvenir), Mpio. Gomez Farías, Reserva de la Biosfera El Cielo,
Tamaulipas, Mexico

July 22 23.11352°N, 99.23962°W, 1969m elev.

SMR1250 Storeria storeroides adult ♀-gravid

La Perra (Ejido El Porvenir), Mpio Gomez Farías, Reserva de la Biosfera
El Cielo, Tamaulipas, Mexico

23.11352°N, 99.23962°W, 1969m elev.

July 22 SMR1251 Crotalus lepidus adult

-collected by Eli García Padilla

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Catalogue

Chiapala, ca. 4km S (by rd) of Matias Romero on MX185, Oaxaca, Mexico
Aug. 8 16.83483°N, 95.02427°W [$\pm 7m$], 179m elev.

SMR1253	<u>Engystomops pustulosus</u>	adult ♂	RNA Later - L	8/10/10
1254	"	" adult ♂	"	"
1255	"	" adult ♂	"	"
1256	"	" adult ♂	"	"
1257	"	" adult ♂	"	"
1258	<u>Gastrophryne usta</u>	adult ♀	"	"
1259	<u>Scinax stufferi</u>	adult ♂	"	"
1260	<u>Thamnophis proximus</u>	adult ♀ gravid	"	"

1.0 km SW (by air) of La Fortaleza, Mpio. Santa María Chimalapa, Oaxaca, Mexico

Aug. 9 17.15444°N, 94.23645°W [$\pm 7m$], 183m elev.

SMR1261	<u>Lepidophyma tuxtlae</u>	juv.	RNA Later - L	8/10/10
1262	<u>Smilisca bandini</u>	adult ♀	"	"
1263	<u>Dendrosophus microcephalus</u>	adult ♂	"	"
1264	<u>Craugastor affredi</u>	adult	"	"
1265	<u>Craugastor rhodopis</u>	adult ♀	"	"
1266	<u>Clelia cyathina</u>	adult ♀	"	"

1.5 km SW (by air) of La Fortaleza, Mpio. Santa María Chimalapa, Oaxaca, Mexico

Aug. 9 17.15256°N, 94.24072°W [$\pm 10m$], 162m elev.

SMR1267	<u>Craugastor rhodopis</u>	adult	RNA Later - L	8/10/10
1268	<u>Smilisca bandini</u>	adult	"	"
1269	<u>Craugastor berkenbuschii</u>	adult	"	"

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Catalogue

1.5 Km SW (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa,
Oaxaca, Mexico

Aug. 9 17.15256°N, 94.24072°W [± 10 m], 162m elev.

SMR1270 Corytophanes hernandezii adult ♂ RNALater - L 8/10/10

1271 Anolis ~~trapidarius~~ compressicaudus adult ♂ " "

0.5 Km SW (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa,
Oaxaca, Mexico

Aug. 9 17.15760°N, 94.23313°W [± 9 m], 117m elev.

SMR1272 Eleutherodactylus leprus adult RNALater - L 8/10/10

1273 Craugastor rhodopsis adult " "

1274 " " adult " "

1275 Coleonyx elegans adult " "

1276 Imantodes cenchoa adult ♀ " "

La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico

Aug. 9 17.15942°N, 94.22879°W [± 7 m], 92m elev.

SMR1277 Bufo marinus juv. RNALater - L 8/10/10

1278 Smilisca baudinii adult ♂ " "

Aug. 10 1279 " " adult RNALater - L 8/10/10

1280 Rana maculata adult RNALater - L 8/11/10

1281 Bufo valliceps adult " "

2.2 km ^{SE} (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico

Aug. 10 17.14095°N, 94.22028°W [± 8 m], 199m elev.

SMR1282 Sphenomorphus asotus juv. RNALater - L 8/11/10

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Catalogue

1.5 km SE (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico
Aug. 10 17.14861°N, 94.22119°W [$\pm 6m$], 99m elev.
SMR1283 Bolitoglossa rufescens adult ♂ RNA Later - L 8/11/10

1.0 km SW (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico
Aug. 10 17.15444°N, 94.23645°W [$\pm 7m$], 183m elev.
SMR1284 Craugastor alfredi adult ♀ RNA Later - L 8/11/10
1285 " " adult " "
1286 Clelia cytalina adult ♂ " "
1287 Sphenomorphus cherriei adult RNA Later - L 8/10/10 "
- Sphenomorphus killed when captured ~~XXXXXXXXXXXXXXXXXXXX~~ "

1.5 km SW (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico
Aug. 10 17.15256°N, 94.24072°W [$\pm 10m$], 162m elev.
SMR1288 Eleutherodactylus leprus adult ♂ RNA Later - L 8/11/10
1289 Craugastor berkenbuschii adult " "
1290 " " adult ♀ " "
1291 " " juv. " "
1292 Anolis barkeri adult ♀ " "
1293 Anolis barkeri adult ♂ " "

La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico
Aug. 10 17.15942°N, 94.22879°W [$\pm 7m$], 92m elev.
SMR1294 Hemidactylus frenatus adult ♂ RNA Later - L 8/12/10
Aug. 11 SMR1295 Smilisca bandini adult ♂ " "

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Catalogue

Aug. 11 2.2 Km SW (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico
17.14499°N, 94.24219°W [$\pm 7m$], 141m elev.
SMR1296 Dermophis mexicanus adult RNALater - L 8/16/10

Aug. 11 0.9 Km S (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico
17.15137°N, 94.23042°W [$\pm 8m$], 195m elev.
SMR1297 Ameiva undulata adult ♂ RNALater - L 8/12/10
1298 Anolis ^{compressicaudus} ~~frigidonotus~~ adult ♂ " "

Aug. 11 1.0 Km S (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico
17.15132°N, 94.23291°W [$\pm 8m$], 239m elev.
SMR1299 Bolitoglossa alberchi adult ♀ RNALater - L 8/12/10
1300 Imantodes cenchoa juv. " "
1301 Leptodeira polysticta juv. " "

Aug. 11 1.5 Km SW (by air) of La Fortaleza, ^{Mpio.} Santa Maria Chimalapa, Oaxaca, Mexico
17.15256°N, 94.24072°W [$\pm 10m$], 162m elev.
SMR1302 Leptodactylus melanonotus juv. RNALater - L 8/12/10
1303 Craugastor berkenbuschii adult " "
1304 Craugastor rhodopsis adult ♀ " "
1305 " " adult ♀ " "
1306 Anolis barkeri adult " "
1307 Craugastor berkenbuschii adult " "

1. The first part of the report is a summary of the work done during the year. It is a brief overview of the main results and conclusions. It is written in a clear and concise style, and is intended to provide a quick overview of the work for those who are not directly involved in the project.

2. The second part of the report is a detailed account of the work done during the year. It is written in a more formal style, and is intended to provide a detailed account of the work for those who are directly involved in the project. It is divided into several sections, each dealing with a different aspect of the work.

3. The third part of the report is a discussion of the results and conclusions. It is written in a more informal style, and is intended to provide a discussion of the results and conclusions for those who are directly involved in the project. It is divided into several sections, each dealing with a different aspect of the work.

4. The fourth part of the report is a list of references. It is written in a formal style, and is intended to provide a list of references for those who are directly involved in the project. It is divided into several sections, each dealing with a different aspect of the work.

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Catalogue

Aug. 12 1.1 km SSE (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico
17.14795°N, 94.23103°W [$\pm 8m$], 97m elev.
SMR1308 Ninia sebae adult ♀ RNALater-L 8/15/10
1309 Leptophis mexicanus adult ♂ " "

Aug. 12 2.6 km SW (by air) of La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico
17.14100°N, 94.25085°W [$\pm 8m$], 228m elev.
SMR1310 Bufo macrocristatus adult RNALater-L 8/13/10
-died in captivity

Aug. 19 1.0 km S (by rd) of La Encarnación on road to MX85, Parque Nacional los Marmoles, Hidalgo, Mexico
20.86792°N, 99.21314°W [$\pm 7m$], 2407m elev.
SMR1311 Pseudoeurycea cephalica adult ♀ RNALater-L 8/25/10
1312 " " adult ♂ " "
1313 " " adult RNALater-L 8/25/10
1314 " " adult ♀ " "
1315 " " adult " " "
1316 " " subadult " "
1317 " " adult ♀ RNALater-L 8/26/10
1318 " " adult ♀ " "
1319 " " adult ♀ " "
1320 " " adult " "
1321 Chiropterotriton chondrostega adult RNALater-L 8/25/10
1322 " " " "

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Catalogue

1.3 km S (by rd) of La Encarnación on road to MX85, Parque
Nacional los Marmoles, Hidalgo, Mexico

Aug. 19

20.86648°N, 99.21619°W [± 13 m], 2454m elev.

SMR1323 Pseudoeurycea bellii subadult

RNA Later-L 8/26/10

1324 Geophis latifrontalis adult ♂

RNA Later-L 8/26/10

1.6 km S (by rd) of La Encarnación on road to MX85, Parque
Nacional los Marmoles, Hidalgo, Mexico

Aug. 19

20.86626°N, 99.21929°W [± 20 m], 2471m elev.

SMR1325 Chiropotes chondrostegus adult RNA Later-L 8/26/10

1326 "

" adult RNA Later-L 8/26/10

Cueva de la Iglesia, Ahuacatlán, San Luis Potosí, Mexico

Aug. 21

21.31886°N, 99.05264°W [± 6 m], 1193m elev.

SMR1327 Craugastor decoratus adult

RNA Later-L 8/26/10

Cueva de Potrerillos, 200m S of Potrerillos and 2km W (by rd) of center
of Ahuacatlán, San Luis Potosí, Mexico

Aug. 21

21.30706°N, 99.06547°W [± 9 m], 1195m elev.

SMR1328 Craugastor decoratus adult

RNA Later-L 8/25/10

0.5 km S (by rd) of La Trinidad on road to Xilitla, Reserva
de la Biosfera Sierra Gorda, San Luis Potosí, Mexico

Aug. 21

21.40539°N, 99.06794°W [± 6 m], 1930m elev.

SMR1329 Pseudoeurycea bellii adult ♀

RNA Later-L 8/26/10

1330 "

" adult ♂

"

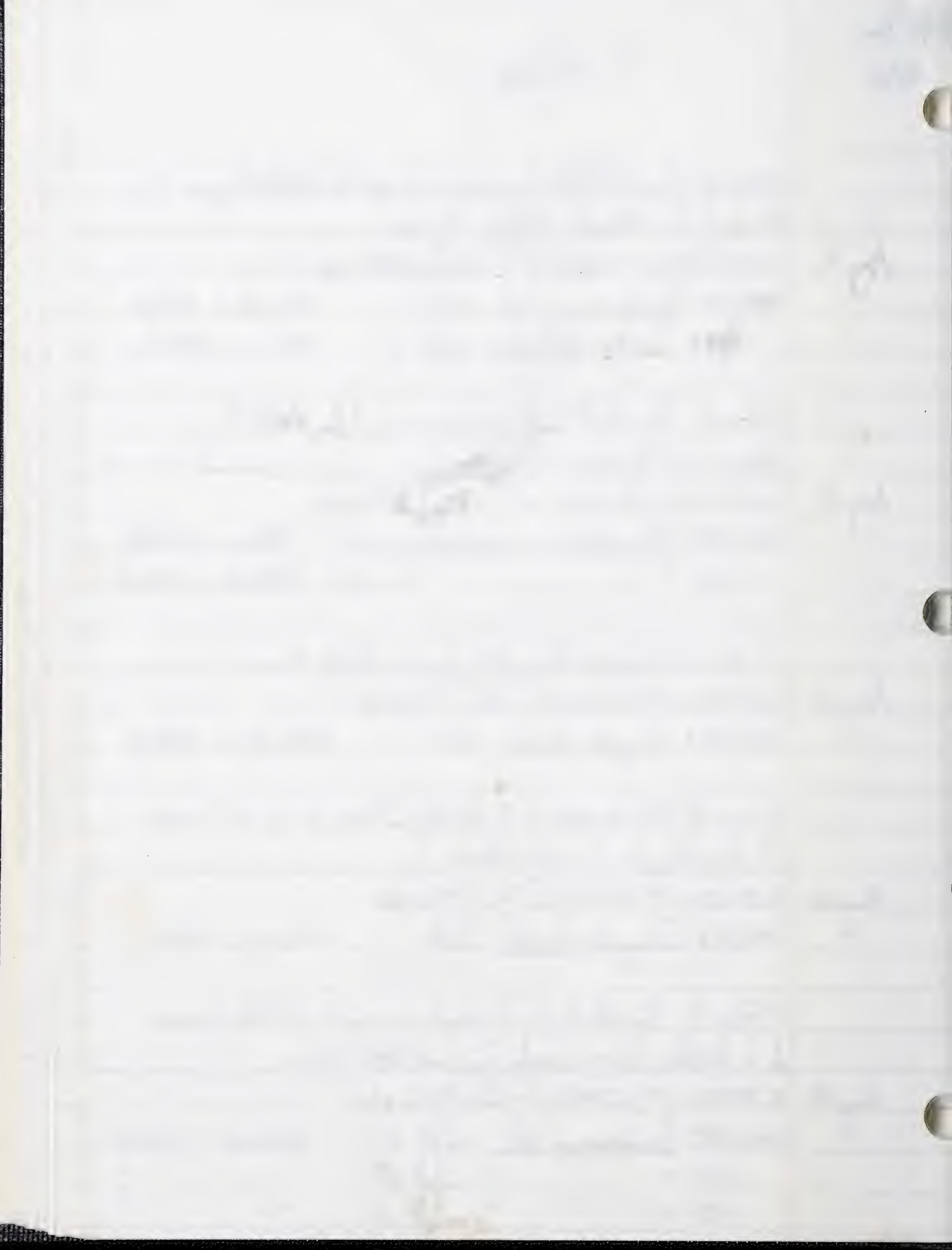
"

1331 "

" adult ♂

"

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Catalogue

0.5 km S (by rd) of La Trinidad on road to Xilitla, Reserva de la
Biosfera Sierra Gorda, San Luis Potosí, Mexico

Aug. 21

21.40539°N, 99.06794°W [$\pm 6m$], 1930m elev.

SMR1332 Pseudoeurycea ~~cephalica~~ ^{sp. nov.} subadult RNALater-L, I 8/26/10

1333 Chiropterotriton adult RNALater-L 8/26/10

1334 " adult ♀ RNALater-L 8/26/10

1335 " adult " "

1336 " adult ♂ " "

Campo Santo, 1.1 km W (by rd) of entrance to Pinal de Amoles on MX120,
Reserva de la Biosfera Sierra Gorda, Querétaro, Mexico

Aug. 22

21.13138°N, 99.62875°W [$\pm 8m$], 2388m elev.

SMR1337 Pseudoeurycea bellii juv. RNALater-L, I 8/26/10

1338 " " juv. " "

1339 Geophis latifrontalis adult ♀ RNALater-L 8/26/10

0.4 km N (by rd) of intersection with MX120 on road to Microondas la
Pingüica, Reserva de la Biosfera Sierra Gorda, Querétaro, Mexico

Aug. 22

21.12267°N, 99.67469°W [$\pm 8m$], 2649m elev.

SMR1340 Pseudoeurycea cephalica adult ♂

Microondas la Pingüica, 7.4 km N (by rd) of MX120, Reserva de la Biosfera
Sierra Gorda, Querétaro, Mexico

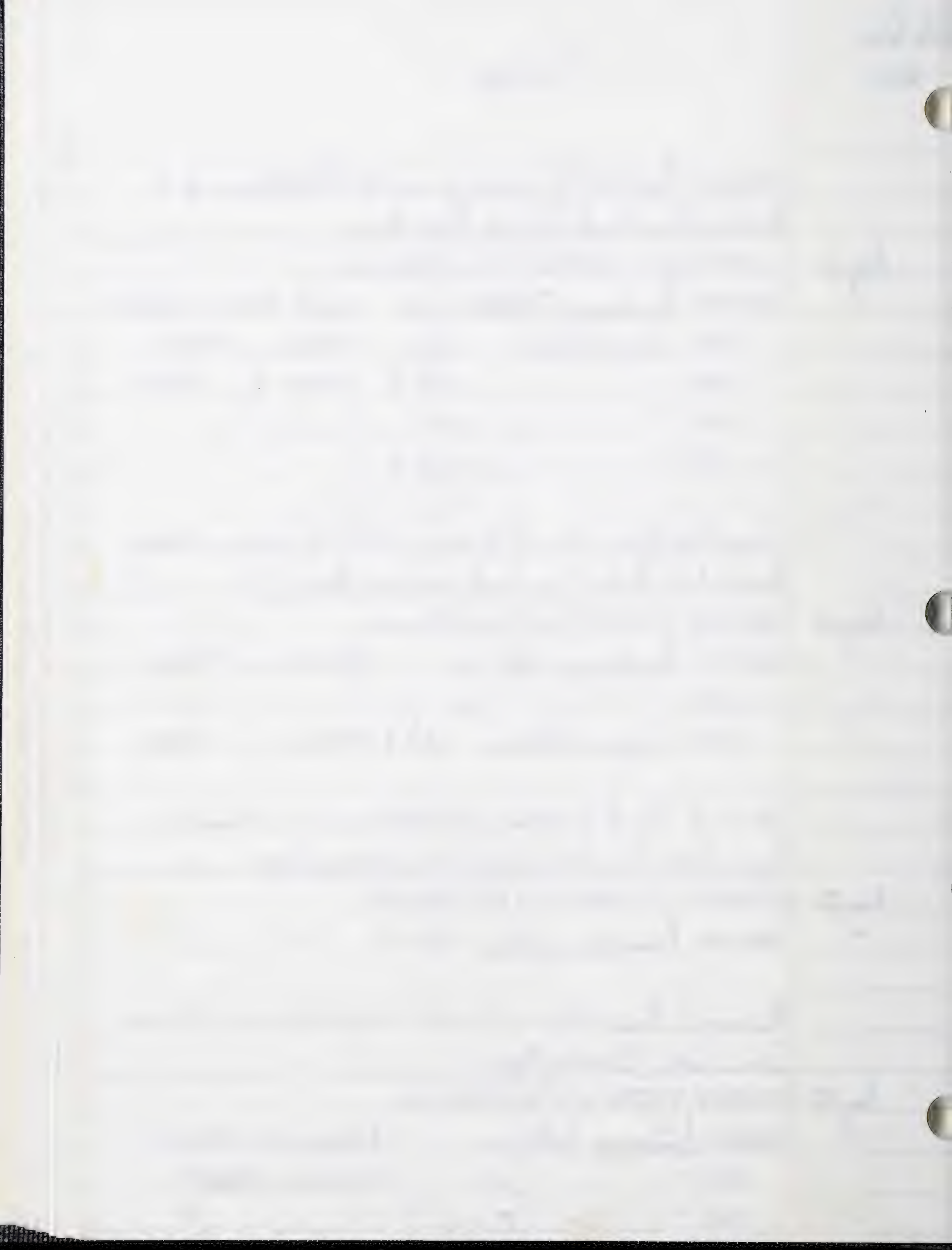
Aug. 22

21.15656°N, 99.68901°W [$\pm 4m$], 3064m elev.

SMR1341 Pseudoeurycea bellii juv. RNALater-L, I 8/26/10

1342 " " juv. RNALater-L, I 8/26/10

1343 " " juv. " "



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Catalogue

Microondas la Pingüica, 7.4 km N (by rd) of MX120, Reserva de la
Biosfera Sierra Gorda, Querétaro, Mexico

Aug. 22 21.15656°N, 99.68901°W [$\pm 4m$], 3064m elev.

SMR1344 Pseudoeurycea bellii adult ♀ RNALater-L 8/26/10

1345 " " adult ♀ " "

1346 Chiropterotriton cf. chondrostega adult RNALater-L, I 8/26/10

on road to sitio arqueológico Ranas

Agua de Venado, 1.7 km NW (by rd) of San Joaquín, Querétaro, Mexico

Aug. 23 20.92274°N, 99.57065°W [$\pm 6m$], 2419m elev.

SMR1347 Geophis latifrontalis adult ♂ RNALater-L 8/26/10

0.3 km N (by rd) of intersection with San Joaquín-Mojonera road on road to
San Juan Enramadas, Querétaro, Mexico

Aug. 23 20.90838°N, 99.53593°W [$\pm 7m$], 2364m elev.

SMR1348 Geophis latifrontalis adult ♀ RNALater-L 8/26/10

1349 Pseudoeurycea cephalica adult ♀ RNALater-L 8/26/10

Instituto de Biología, Universidad Nacional Autónoma de México, D.F., México

Aug-Sept. 19.32059°N, 99.19395°W [$\pm 9m$], 2265m elev.

SMR1350 Sceloporus adult RNALater-L

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Catalogue

8.6 Km E (by rd) of Puerto del Gallo on road to Carrizal de Bravos,
Guerrero, Mexico

Sept. 26

17.46550°N, 100.11111°W [$\pm 9m$], 3180m elev.

SMR1351 ⁵¹⁷⁹*Pseudoeurycea tlahcuiloh* juv.

RNA Later - L 9/27/10

8.0 Km E (by rd) of Puerto del Gallo on road to Carrizal de Bravos, Guerrero, Mexico

Sept. 27

SMR1352 *Thorius grandis* adult

RNA Later - L 9/28/10

1353

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17.46311°N, 100.15319°W [$\pm 8m$], 3085m elev.

8.6 Km E (by rd) of Puerto del Gallo on road to Carrizal de Bravos, then
0.7 Km N (by rd) up Cerro Teatepec, Guerrero, Mexico

Sept. 27

SMR1354 *Thorius grandis* adult

RNA Later - L 9/28/10

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17.47004°N, 100.15401°W [$\pm 8m$], 3202m elev.

18.8 Km E (by rd) of Puerto del Gallo on road to Carrizal de Bravos, Guerrero, Mexico

Sept. 27

17.46576°N, 100.08875°W [$\pm 6m$], 2950m elev.

SMR1361 *Pseudoeurycea tlahcuiloh* adult

RNA Later - L 9/28/10

1362

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"

adult

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1363

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"

adult

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10/10/19

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Rovito, Sean
2010

Catalogue

Cueva El Madroño, 900m NW (by air) of entrance to Valle de los
Fantasmas on MX70, Sierra de Alvarez, San Luis Potosí, Mexico

Oct. 16 22.07183°N, 100.61466°W [± 10 m], 2297m elev.

SMR1364 *Chirotetrion multidentatus* adult RNALater - L, I 10/18/10

1365 " " subadult

1366 " " subadult

4.1 Km S (by rd) of Mineral del Chico on road to Pachuca, Parque
Nacional El Chico, Hidalgo, Mexico

Oct. 17 20.19801°N, 98.72749°W [± 10 m], 2768m elev.

SMR1367 *Chirotetrion dimidiatus* adult ♂ RNALater - L, I 10/18/10

1368 *Pseudoeurycea cephalica* adult ♀ RNALater - L 10/18/10

1369 " " juv.

1370 " " juv.

Puerto Soledad, Sierra Mazateca, Oaxaca, Mexico

Oct. 22 18.16389°N, 96.99945°W [± 7 m], 2341m elev.

SMR1371 *Craugastor mexicanus* juv. RNALater - L 10/23/10

0.8 Km SSW (by air) of Plan de Guadalupe, Sierra Mazateca, Oaxaca, Mexico

Oct. 23 18.13803°N, 96.95811°W [± 5 m], 2272m elev.

SMR1372 *Craugastor mexicanus* adult RNALater - L 10/23/10

1373 " " juv. " "

1.6 Km S (by rd) of Puerto Soledad on road to San Bernardino, Sierra Mazateca, Oaxaca, Mexico

Oct. 23 18.15699°N, 97.00283°W [± 8 m], 2319m elev.

SMR1374 *Pseudoeurycea ruficanda* adult RNALater - L, I 10/23/10



Rovito, Sean
2010

Catalogue

1.1 Km N (by rd) of northern entrance to San Juan de los Cues on
MX135, Oaxaca, Mexico

Oct. 24 18.06751°N, 97.06848°W [$\pm 6m$], 871m elev.

SMR1375 Boa constrictor adult DOR RNALater-muscle 10/24/10

San Bernardo, 4.8 km SW (by rd) of La Esperanza on MX175, Oaxaca, Mexico

Oct. 25 17.60607°N, 96.38425°W [$\pm 7m$], 1729m elev.

SMR1376 Atrypoides mexicanus juv. RNALater-L 10/25/10

1377 Chiropetriton "pluvialis" RNALater-L, I 10/25/10

1378 " " juv. " "

1379 Craugastor alfredi adult RNALater-L 10/26/10

1380 " " juv. RNALater-L, I 10/25/10

1387 Xenosaurus grandis adult RNALater

17.60770°N, 96.38475°W [$\pm 7m$], 1693m elev.

SMR1381 Pseudoeurycea cf. werleri adult ♀ RNALater-L 10/26/10

17.60956°N, 96.38599°W [$\pm 7m$], 1672m elev.

SMR1382 C. "pluvialis" adult RNALater-L, I 10/25/10

17.61027°N, 96.38651°W [$\pm 7m$], 1602m elev.

SMR1383 Craugastor mexicanus adult RNALater-L 10/25/10

1384 Plectrohyla cyclada RNALater-L, I 10/25/10

17.60542°N, 96.38224°W [$\pm 10m$], 1788m elev.

SMR1385 C. "pluvialis" adult ♀ RNALater-L 10/25/10

1386 " " adult " "

Rovito, Sean
2010

Catalogue

ca 200m from MX175 on road to San Isidro Yolo, Oaxaca, Mexico

Oct. 26

17.60094°N, 96.41846°W [$\pm 6m$], 2001m elev.

SMR1388 Chiropetriton "pluvialis" adult ♀ RNALater-L 10/26/10

1389 " " adult ♀ " "

1390 " " adult ♀ " "

1391 " " adult ♀ " "

1392 " " adult " "

1393 Pseudoeurycea saltator " "

1394 " " " "

1395 " " juv. " "

1396 " " juv. RNALater-L, I 10/26/10

1397 " " juv. " "

1398 Pseudoeurycea cf unquidentis adult RNALater-L 10/26/10

1399 ~~Engaeohyla~~ Charadrahyla adult RNALater-L 10/27/10
nephila

La Esperanza, on MX175 between Ixtlán de Juárez and Valle Nacional,
Oaxaca, Mexico

Oct. 26

17.62747°N, 96.36687°W [$\pm 6m$], 1715m elev.

SMR1400 Plectrohyla cyclada RNALater-L 10/26/10

10.3 km S (by rd) of center of Valle Nacional on MX175, Oaxaca, Mexico

Oct. 26

17.72390°N, 96.32100°W [$\pm 8m$], 676m elev.

SMR1401 Bolitoglossa sp. "Vista Hermosa" adult RNALater-L 10/27/10

1402 " " adult ♂ RNALater-L, I 10/26/10

1403 " " adult " "

1404 " " adult " "

1405 Bolitoglossa rufescens adult " "

1. The first part of the report is devoted to a description of the

method used for the collection of data. This is followed by a

description of the results of the analysis.

The results of the analysis are presented in the following

table. The first column gives the name of the

parameter, and the second column gives the

value of the parameter. The third column

gives the standard deviation of the

parameter. The fourth column gives the

confidence interval for the parameter.

The results of the analysis are presented in the following

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table. The first column gives the name of the

parameter, and the second column gives the

value of the parameter. The third column

Rovito, Sean
2010

Catalogue

10.3 km S (by rd) of center of Valle Nacional on MX175, Oaxaca, Mexico

Oct. 26 17.72390°N, 96.32100°W [$\pm 8m$], 676m elev.

SMR1406 Rhadinea decorata juv. RNALater-L 10/26/10

ca. 400m (by rd) from MX175 on road to San Isidro Yolox, Oaxaca, Mexico

Oct. 27 17.60257°N, 96.41912°W [$\pm 8m$], 1904m elev.

SMR1407 Thorius arboreus adult RNALater-L, I 10/27/10

1408 " " juv. " "

1409 " " juv. RNALater-L, I, tail tip 10/27/10

1410 " " juv. " "

1411 Pseudoeurycea saltator adult RNALater-L 10/27/10

1412 " " adult " "

1413 " " adult " "

1414 " " adult " "

1415 " " juv. RNALater-L, I 10/27/10

1416 " " juv. " "

1417 Chiropteractis "pluvialis" RNALater-L, I 10/27/10

1418 " " juv. " "

1419 " " juv. " "

7.8 km N (by rd) of MX175 on road to San Isidro Yolox, Oaxaca, Mexico

Oct. 27 17.62204°N, 96.42245°W [$\pm 8m$], 1274m elev.

SMR1420 Thorius smithi adult ♀ RNALater-L, I, stomach 10/27/10

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1801. It is a very important document, as it is the first official communication of the new administration.

2. The second part of the document is a report from the Secretary of the Treasury, dated January 1, 1801. It contains a detailed account of the financial state of the country at the time.

3. The third part of the document is a report from the Secretary of the Navy, dated January 1, 1801. It contains a detailed account of the naval operations of the country at the time.

4. The fourth part of the document is a report from the Secretary of the War, dated January 1, 1801. It contains a detailed account of the military operations of the country at the time.

5. The fifth part of the document is a report from the Secretary of the Interior, dated January 1, 1801. It contains a detailed account of the land and natural resources of the country at the time.

6. The sixth part of the document is a report from the Secretary of the State, dated January 1, 1801. It contains a detailed account of the diplomatic relations of the country at the time.

7. The seventh part of the document is a report from the Secretary of the Education, dated January 1, 1801. It contains a detailed account of the educational system of the country at the time.

8. The eighth part of the document is a report from the Secretary of the Agriculture, dated January 1, 1801. It contains a detailed account of the agricultural production of the country at the time.

9. The ninth part of the document is a report from the Secretary of the Commerce, dated January 1, 1801. It contains a detailed account of the commercial activities of the country at the time.

10. The tenth part of the document is a report from the Secretary of the Public Works, dated January 1, 1801. It contains a detailed account of the public works projects of the country at the time.

11. The eleventh part of the document is a report from the Secretary of the Public Health, dated January 1, 1801. It contains a detailed account of the public health conditions of the country at the time.

12. The twelfth part of the document is a report from the Secretary of the Public Safety, dated January 1, 1801. It contains a detailed account of the public safety measures of the country at the time.

13. The thirteenth part of the document is a report from the Secretary of the Public Education, dated January 1, 1801. It contains a detailed account of the public education system of the country at the time.

14. The fourteenth part of the document is a report from the Secretary of the Public Works, dated January 1, 1801. It contains a detailed account of the public works projects of the country at the time.

15. The fifteenth part of the document is a report from the Secretary of the Public Health, dated January 1, 1801. It contains a detailed account of the public health conditions of the country at the time.

ovito, Sean
2010

Catalogue

Llano de las Flores, 22.6 km N (by rd) of entrance to Ixtlán de Juárez on
MX175, Oaxaca, Mexico

Oct. 28 17.43963°N, 96.50951°W [$\pm 6m$], 2879m elev.

SMR1421 Thorius adult RNALater-L, I 10/28/10

1422 Abronia adult ♂ RNALater-L 10/28/10

1423 Sceloporus adult ♀ " "

Entrance to panteón municipal, Cuetzalan, Puebla, Mexico

Nov. 18 20.01757°N, 97.52467°W [$\pm 9m$], 965m elev.

SMR1424 RNALater-L 11/21/10

7.1 km N (by rd) of center of Cuetzalan on road to Yohualichán,
Puebla, Mexico

Nov. 19 SMR1425 Chiropteratriton sp. adult RNALater-L, I 11/20/10
20.05078°N, 97.50065°W [$\pm 7m$], 689m elev.

6.9 km S (by rd) of south entrance to Cuetzalan (edge of town) on
road to Zacapoaxtla, Puebla, Mexico

Nov. 19 19.98977°N, 97.54622°W [$\pm 7m$], 1359m elev.

SMR1426 Craugastor loki RNALater-L 11/21/10

Summit of Cofre de Perote, Veracruz, Mexico

Nov. 20 19.49793°N, 97.15182°W [$\pm 12m$], 4000m elev.

SMR1427 Sceloporus grammicus subadult ♀ RNALater-L 11/21/10

2.9 km E (by rd) of Cruz Blanca on MX140, Veracruz, Mexico

Nov. 20 19.164208°N, 97.14334°W [$\pm 9m$], 2513m elev.

SMR1428 Pseudoeurycea cephalica adult RNALater-L 11/21/10

Handwritten text in Urdu script, appearing as a list or series of notes.

Handwritten text in Urdu script, appearing as a list or series of notes.

Handwritten text in Urdu script, appearing as a list or series of notes.

Handwritten text in Urdu script, appearing as a list or series of notes.

Handwritten text in Urdu script, appearing as a list or series of notes.

Rovito, Sean
2010

Catalogue

2.4 km E (by rd) of Cruz Blanca on MX140, Veracruz, Mexico

Nov. 20

19.63953°N, 97.14621°W [$\pm 4m$], 2509m elev.

SMR1429	<u>Thorius muniticus</u>	adult	RNA Later-L, I	11/21/10
1430	"	" adult	"	"
1431	"	" adult	"	"
1432	"	" adult	"	"
1433	"	"	"	"

MX140 at

0.8 km N (by rd) of La Joya, Veracruz, Mexico

Nov. 20

19.61859°N, 97.03048°W [$\pm 5m$], 2186m elev.

SMR1434	<u>Chiropterotriton</u>	larvae	adult ♂	RNA Later-L, I	11/21/10
1435	"	"	adult	"	"
1436	"	"	juv.	"	"
1437	"	"	juv.	"	"
1438	~~Pseudoeurycea~~	<u>Scincella gemmingeri</u>	adult ♀	RNA Later-L	11/21/10

Las Lajas microwave station, 12.7 km S (by rd) MX140 at Las Vigas, Veracruz, Mexico

Nov. 21

19.57785°N, 97.09338°W [$\pm 6m$], 3011m elev.

SMR1439	<u>Pseudoeurycea leprosa</u>	adult ♀	RNA Later-L	11/21/10
1440	"	" adult ♂	"	"
1441	"	" juv.	"	"
1442	"	" juv.	"	"
1443	"	" juv.	"	"



Sean M. Rovito

2010

Journal

Costa Rica: Alajuela

Guatemala: El Quiche, Huehuetenango

Mexico: Chiapas, Guerrero, Hidalgo,
Oaxaca, Puebla, Queretaro, San Luis
Potosi, Tamaulipas, Veracruz

Kanto, Sean
2010

Journal

Uspantan, Depto. Quiché, Guatemala
Jan. 14 Gabriela and I arrived in Guatemala on Jan. 12 and met Carlos, Fed, Lisa (USAC student) and Alejandra (del Valle student). Yesterday, drove to Uspantan & spent night. This morning, met Laura (Peace Corps volunteer) in tourist office. Drove to a point Km N of town on the road to Caracol. Walked uphill & Fed took wrong path and got lost. We opened a few bromeliads and worked along the trail looking under logs and bark. Gabby found a B. lincolni under a log; I got one as well, but it escaped while someone was taking photos. The trail eventually ends up at both a town and a cerro called Macalajia. We found Fed again near the top, where corn fields and scrub abruptly meet an oak forest with huge trees, lots of moss and a bamboo understory. We searched from 14:00-15:00, and Alejandra found a Plectrohyla and a B. rostrata under moss. Both Gabby and Carlos found a B. rostrata under logs. We started downhill and Gabby got a B. cuchumatana under a log. Stopped in an area of decent oak forest without many big trees but w/ lots of good bromeliads. Opened bromeliads for ~45 min and got 5 juvenile B. cuchumatana before it got dark. Although vegetation is somewhat disturbed, salamanders seem to be abundant. The B. cuchumatana vary in color from almost black without pattern to very light brown with an orangish tail, and many have a B. rostrata-like reddish dorsal stripe. The weather was fairly cold but sunny.

Rovito, Sean
2010

Journal

Uspantán and Laj Chimal, Depto. El Quiché, Guatemala

Jan. 15

We returned to the same place where we finished yesterday and worked from 09:45-12:00 opening about 60 nice, large bromeliads. We got 22 B. cuchumatana and 6 Plectrohyla (all apparently of the same species). We opened many of the bromeliads but left some; the patch of forest with larger trees was quite small (a few ha) and seemed like it might be secondary. We drove to Laj Chimal, a small village about an hour N of Uspantán, and searched in their community forest along trails built for ecotourism. The forest was very small (just the top of one hill) but very nice, with huge trees and some big bromeliads. We opened some (not many were accessible) and got 4 B. cuchumatana in about an hour. We also found a Graugastor on the ground. Drove back to Uspantán to spend the night.

Axengáño and Laj Chimal, Depto. El Quiché, Guatemala

Jan. 16

We drove to Macalajau and turned off to drive to Axengáño, a small aldea on a recently completed road. We had to walk the last 2 km as the road was being repaired/built. We walked above town to a ruined church (bombed during war), but there wasn't any forest. We opened 4 bromeliads in scrubby vegetation and got 2 B. cuchumatana. We then met Marcelo, a man who Laura knew, and he took us to the top of a hill above town. It was extremely steep and muddy, but good forest with lots of tree ferns and fairly big trees started about halfway up. There weren't any bromeliads until about the last 100 m. We got to the top (Ted couldn't make it, and went back with Carlos) and opened bromeliads from 15:20-16:20; the summit was at ~2100 m. We got 2 Silene

My dear friend,
I have just received your letter of the 10th inst. and am
glad to hear from you. I am well and hope these few lines
will find you the same. I have been thinking much of late
of the future of our country and the progress of the world.
It seems to me that we are in a critical position and that
the future of our country depends upon the wisdom of the
people. I hope that you will be able to do something for
the good of our country and the world. I am, my friend,
very truly yours,
Wm. L. G. [Signature]

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Wm. L. G. [Signature]

Karto, Sean
2010

Journal

Axengañó and Laj Chinel, Depto. El Quiché, Guatemala (cont)

Jan. 16

... out of bromeliads, as well as 6 B. cuchumatana. All the bromeliads were really big and most of the habitat was quite nice. We stopped searching to get down with daylight and met Ted and Carlos at the cars. We drove back to Laj Chinel, arriving after dark, and surprised Doña Maria, a woman who let us stay in her house and helped us make dinner. Although we were totally exhausted, we went up above Laj Chinel on the high point to San Pablo El Baldío, where the road became impassible due to mud. A beautiful cloud forest covers this area, which Laura told us is one of the largest in Guatemala. The trees (broadleaf, probably oaks) are very large, and everything is covered with moss. It was misty / almost raining outside the forest, and lightly raining inside the forest. Ted got lost and ended up not searching, but the rest of us searched from 21:45 - 23:00. I got a juvenile B. cuchumatana about 2m off the ground on a leaf, and later a big female B. hartwegi on a fern. The B. hartwegi had a really striking white venter with black mottling, and is only the second one known from Quiché as far as I know. I got a Graugastor along the road, and Carlos found a B. linedini on the road bank. This forest was spectacular; we saw howler monkeys and got a Graugastor when we came to look at it yesterday. We spent the night in Doña Maria's house in Laj Chinel; she is an impressive woman and was extremely welcoming to us. I think the forest in this area deserves much more exploration.

Rosita, Sean

2010

Journal

Laj Chinel and Los Caragues, Mpio. Uspantán, Depto. El Quiché, Guatemala
Jan. 17 We woke up late (we were exhausted) and didn't get going until 10:30. During breakfast, Doña Maria talked about the community's difficult relationship with Rigoberta Menchú (who is from there) and a little about what happened to her during the war. We then drove 1.9 Km back towards Uspantán to an area with some big oak trees and tons of big bromeliads. Cattle are grazed here and there isn't really any understory; it's pretty disturbed but the trees are nice. We opened about 50 bromeliads from 11:30-13:15 and saw ~30 B. cucumatana (collected 7). Carlos found a different species of Plectrohyla from the one we got on the first day, in almost the last bromeliad we opened. We had lunch in Laj Chinel and drove back towards Uspantán. We turned off on a road to the small town of Los Caragues and searched in a forest 0.4 Km from the main road. The forest was a mix of pine and oak, with tons of bromeliads, and was drier than other places we have looked. We opened bromeliads from 16:30-18:00, and got 10 B. cucumatana and 2 Plectrohyla (same species as on first day). I also found a B. cucumatana under a small branch on the ground. In addition to the bromeliads we usually open, there were also smaller ones with thinner leaves. We stopped only when it got too dark. This forest seems like an excellent site for Hendrotriton. The weather today was sunny and warmer. We drove back to Uspantán to spend the night.

Kovito, Sean
2010

Journal

Los Canaques, Mpio. Uspantán, Depto. El Quiché, Guatemala
Jan. 18 We fixed specimens until 1:30 AM last night and thus got a late start this morning. We drove back to the ~~same~~ same place we finished at yesterday and spent ~1.5 hr (11:15-12:45) opening bromeliads, before someone who guards the land told us we couldn't work there (although we asked for permission in the nearby houses). We opened ~48 bromeliads and got 49 B. cuchumatana; we kept only 1. I can't believe that we didn't find a Hendrotriton at this site. We then drove to a community forest that belongs to Aldea los Canaques, 2.6 km from the main road. The forest had some oak trees and enormous pines, with some ferns and lianas, and is much more humid than where we searched this morning. There were some bromeliads; most were small, although we opened 3 big ones. We searched from 14:15-15:10 and got 18 B. cuchumatana (kept 1); 6 were in bromeliads, 1 in a log and 1 under bark of a log. Also got 2 B. lineolus, 1 under bark + 1 under a log. This forest is tiny (perhaps 2 ha) and we looked in almost all reachable bromeliads. We drove back through Macalaján looking for a site, and stopped at a point ~2.5 km from the main road in a village called Las Marias to look at some big trees we saw from the road. They appeared to be the last remnants of original forest left; everything else is secondary forest or grassland. There were no reachable bromeliads but I got a small B. cuchumatana under a piece of bark. Although the morning was sunny, the afternoon was cool and very foggy. We found no suitable habitat, in part because of the fog, and returned to Uspantán to spend the night.

Ratto, Sean
2010

Journal

Rincón Poblaj, Uspantán, Depto. Quiché, Guatemala
Jan. 19 Laura brought a friend from the area to guide us to a forest on a finca called Rincón Poblaj, 6.6 Km E (by rd) of Uspantán (15.36403°N, 90.82388°W [$\pm 8m$], 2008m elev.). The area turned out to have only a short secondary forest with a few Liquidambar trees. Gabriela got a B. cuchumatana out of a bank and we got 2 more out of the 4-5 bromeliads we opened. We only searched for ~30 min total, since the habitat was no good. We packed up and drove to Huehuetenango, where we met the owners of Finca Ixcansán. They were entirely uninterested in selling any of it as a reserve, but seemed to like the idea of a private reserve.

San Juan Ixcán area, Sierra de los Cuchumatanes, Depto. Huehuetenango, Guatemala
Jan. 20 Gabriela left by bus this morning to go back to Mexico. We drove to the Dendrobium cuchumatana type locality and met a local man who FUNDAECO had contacted. He took us to a town called Las Vegas on the Rio Quiché, 11.1 Km (by rd) from the highway. There was a forest with small oak trees and some larger pine trees. There were lots of small to medium sized bromeliads, and lots of agaves; the forest seemed quite dry. We opened bromeliads from 11:00-13:00 and got 4 Electrochyla. We drove back to the type locality but the owner told us that no oak forest remains in the area, so we gave up and drove to Barillas. At night, a series of mistakes led to a tissuing disaster. All the B. cuchumatana from 1/18 and 1/19 were mixed in a single jar of chloroform and we couldn't tell which was which. I kept none and voided these numbers - a big waste.

hutto, Sean
2010

Journal

Barillas area, Depto. Huehuetenango, Guatemala

Jan. 21

We searched the Barillas area to find a contact zone between B. rufescens and B. "caribe", a new species we are describing. There is a specimen of B. "caribe" from somewhere near Finca Chiblac, but the other ones I've sequenced are all B. rufescens. We drove from Barillas on the road to the Mexican and stopped in a banana and coffee plantation just outside of town. We searched for 1 hr (10:00-11:00), mostly in bananas but also under logs. I opened 2 bromeliads and got a B. rufescens (impossible to tell from B. "caribe"); the others got 5 more and 2 Amalisea baudinii, all in bananas. We drove on, trying to find a second site in the lowlands, but found no more bananas. We opened ~10 big bromeliads from an isolated tree in a cow pasture on Rancho Emilia, right before the bridge over the first river along the highway. Found only a bird egg and a scorpion (saw an Anolis). All land here has been converted to pasture, with some forest on steep hillsides. Headed back towards Barillas and turned off at Aldea La Concepción. Continued through Santa Maria Yulhutz and Llanillo to El Valle, where we looked in 2005. We searched in 2 patches of bananas for 45-50 min total and found 7 B. rufescens and 5 A. baudinii (kept 3), all in bananas. Couldn't find another site before dark so we headed back to Barillas to fix today's specimens. The day was fairly warm and clear.

Larito, Sean
2010

Journal

Chiblac and Chancón, Mpio. Barrillas, Depto. Huchuetenango, Guatemala
Jan. 22 We spent some time in the morning sharpening machetes, talking to people in the muni and sending off lots for the export permit. Took road out to Chiblac and ~~continued~~ continued on road to a small town called Siglo Niente Ermita, on the road to Flor de Café, Chiapas. We spent about 40 min searching in bananas (mostly green). I got a B. rufescens in a green banana and Ted got an Amantodes cenchoa in a red banana. Continued back toward Chiblac and stopped in San Carlos Chancón, where we searched in green bananas for 45-60 min without success. Went on to Las Victorias Chancón and searched in bananas (mostly red) for 30-45 min; got 2 B. rufescens and 1 Anolis. Finally, turned off to Palmaras de Chiblac and searched in bananas (red + green) from around 16:45-18:00; got 3 B. rufescens (red bananas) and a Phyllorhina. The day was clear and quite warm.

San José Marbal, Depto. Huchuetenango, Guatemala
Jan. 23 We drove from Barrillas to San José Marbal, a 2-2.5 hr drive. We spent most of the afternoon putting in pitfall traps with fencing. One array of 13 cans (not continuous) was put in along a stream through nice forest ~~about~~ north of town, while another 8 cans were put in along a trail in a beautiful forest 1.8 km S of town. After we got all the cans in, our guides (2) took us to a spot where huge trees had been felled and cut into boards, with some boards left laying on sawdust, many with peeling bark. This was ideal for salamanders, and quite similar to the site where we found Brachytriton last year at Finca Arcasán. We searched for 30-45 min and got 6

into, Sean
2010

Journal

San José Maxbal, Depto. Huehuetenango, Guatemala (cont.)

Jan. 23 ... B. hartwegi; 2 were under boards laying on sawdust and the other 4 were under the bark of boards. We also got a big Bradytriton silus under a board. After dinner, we searched along a stream on the N side of town from 19:45-20:45. Plectrohyla ixil could be heard calling along the stream; we caught 5 and collected 3. I walked along a side trail above the stream and got a B. rufescens on a log; also saw an opossum in a tree. I found a tiny Rauvogaster along the road but didn't collect it. The day was mild with no clouds, and the night was clear and cool. They told us the last big rain here was 2 weeks ago.

San José Maxbal, Depto. Huehuetenango, Guatemala

Jan. 24 We got started at 08:45 this morning with 2 guides and returned to the site where we got the Bradytriton yesterday, after getting only 1 small shrew in a pitfall trap along the stream. We searched in more old wood from 10:15-11:45 and got 5 B. hartwegi and a Sphenomorphus, all under boards. After searching for another site and eating lunch, we searched for another 10 min in logs on a nearby trail and I got another B. hartwegi. We drove to a road junction 3.6 km S of San José Maxbal and opened 10 bromeliads in a corn field and on the edge of a forest - Carlos got 1 B. cussumata in a big bromeliad. We opened another 6-7 bromeliads in a forest but got nothing. We drove up the other road at the junction, toward Mulhuitz Grande, but the road ended at a spot overlooking Mulhuitz Grande. We opened 3 small bromeliads along the road in a disturbed area of forest and got a small B. rufescens.

Rovito, Sean
2010

Journal

San José Maxbal, Depto. Huehuetenango, Guatemala (cont.)

Jan. 24 ... We opened another 2 big bromeliads next to a nice stretch of forest and one of them had 3 brown hyalids of the same species. Ted decided to walk along the road while the rest of us walked up another path where they had been cutting wood. Searched under some terrific boards and logs from 16:20-17:50; I got a B. cushumatana and Carlos got a Bufo campbelli. We met Ted on the main road and he had found a Bradytriton silus in a roadbank near the junction. We drove back to Maxbal and I made tags and tubes for prepping while the others went to search along the stream where we put the pitfall traps. They found 2 Plectrohyla ixil males that they released and spent 45 min searching. The day was really hot and sunny, and it got partly cloudy at night.

Jan. 25 We awoke this morning to the sound of rain, which must have started sometime after midnight. It was quite heavy at times in the morning but got lighter as the day went on. After checking the traps (got nothing) and prepping specimens, we walked to Laguna Maxbal. We checked a lot of logs and bark but got nothing on the way there; on the way back I found a Graugaster chae under a log in the forest. Much of the land along the path has been cleared for corn fields. We drove to a site 2.1 Km S of San José Maxbal where they had cut down big trees and made boards; habitat seemed great but we got only 2 B. hartwegi from 16:00-17:00. We went back, ate dinner and had a meeting with the local people about conserving the forest, but found out they don't actually own the land - belongs to

Carto, Sean
2010

Journal

San José Maxbal, Depto. Huehuetenango, Guatemala (cont.)

Jan. 25

... 33 different owners, 8 of whom are dead. We then drove to the junction of the road to Yulhutz Grande (unfinished) and searched in a road bank with limestone that had big cracks. I quickly got an adult Bradytriton and 2 Graugastor, all out foraging. I then found a big adult Nyctanolis pernix in a crack in the limestone, and almost lost it since it was really fast and agile. We searched from 20:00-20:45, and Carlos and Lisa got 2 more Graugastor and I got an Anolis. We then drove back to the forest 1.8 km S of town where we had the pitfall traps. The rain had stopped by now but it was cloudy and still "raining" inside the forest. We searched from 21:00-23:20, with great success. I quickly found another N. pernix about 30 cm off the ground, climbing up a liana on a huge tree. It escaped into a cavernous crack amongst the roots when I grabbed it. I proceeded to find 4 more, all of which were on trees (all but one on very large trees), between 0.25 and 2m off the ground. I found a male and female together about 2cm apart, and almost lost a juvenile as it made a flying leap out of the tree. I have never seen a salamander that looks & behaves anything like this. I found all the Nyctanolis in about the first hour, and got only a B. hartwegi on the ground after that. Lisa got a B. hartwegi on a small branch and a Graugastor. Carlos found another B. hartwegi on the ground and an Exerodonta perkinsi on a leaf - another big success. We got another shrew out of one of the pitfall traps.

Handwritten text at the top of the page, possibly a title or date.

Main body of handwritten text, consisting of several paragraphs. The text is written in cursive and is mostly illegible due to blurring. It appears to be a letter or a journal entry.

into, Sean
2010

Journal

Mar. 15

Peña Verde area, Mpio. Santa María Papalo, Sierra de Juárez, Oaxaca, Mexico
Yesterday, I left DF with Gabriela, Citlue Cavides, Cynthia, and Pedro Jencio. We planned to go to Comaltepec but were short on time and decided to go to the Papalos first. Went to Santa María Papalo, handed in some reports and spent the night. Woke up and drove to the forest at the junction of the road to San Alejo, 3.7 Km N (by rd) of Peña Verde. We worked from 10:00 - 14:30 (30 min lunch break), mostly opening bromeliads but also looking under logs. Got Chiropterobatrax "pluvialis" and a small green hylid, all in bromeliads. It was damp under most logs but the forest was dry in general - good conditions for bromeliad searching. We then drove on to Iloxixtac Viejo and searched for more Pteropus chiapensis habitat - saw some on a new road coming up from San Alejo but didn't have time to drive back. Were denied permission to work in the pine forest patch where I found the Thorius tail in 2008. Took road to San Francisco Chapulapa but there was almost no forest anywhere along the road all the way back to Peña Blanca. Had planned to spend night at Cerro San Felipe, but got back late and stayed in Cuicatlan.

March 17

Cerro San Felipe, Oaxaca, Mexico

Yesterday, we drove to Oaxaca in the morning to find that all roads in and out of the city (including the road to Ixtlan) were blocked by striking teachers. Without many other options, we drove to Zozocola and took the road to Santa Cruz del Monte, and then to Cuatro Venados. We arrived at some good pine-oak forest and searched for about 15 min, but it was completely

Krato, Sean
2010

Journal

Cerro San Felipe, Oaxaca, Mexico (cont)

March 17 ... dry, except inside the few logs we found (16.94409°N , 96.88315°W [$\pm 7\text{m}$], 2699m elev.). We gave up and drove back to Oaxaca, where some teachers told us a way around the blockad. We drove on to the cabins at La Cumbre de Santa Catarina Ixttepeji, where we spent the night. This morning, Pedro drove Gabriela back to Oaxaca to get a bus to DF. Itzye, Cynthia and I were dropped off at the Microondas Corral de Piedra, above the cabanas, and spent about 2.5 hrs (10:30-13:00) searching under logs in pine forest. Most of the trees were quite small (clearly secondary) and there was a lot of wood debris - this forest is highly disturbed. Although conditions were extremely dry, including under many logs, we had some luck. I found 14 Ichorius (marisovalis?) under pieces of bark, while Itzye got 11 and Cynthia got 3 (only collected 1) under logs (17.17281°N , 96.65296°W [$\pm 7\text{m}$], 3288m elev.). We met Pedro and drove on to Santiago Comaltepec, where we had a long discussion with the Presidente del Comisariado de Bienes Comunales. In the end, after talking, leaving a book and articles, and making a donation to the community (\$MX 300), we were given permission to collect a few specimens. Drove to San Pedro Yula and did the same, without the donation and collecting restrictions. Drove to Cerro Pelón and walked down from Mirador, searching along roadcut with lights from 20:45-21:45. It had rained a little earlier but was pretty dry with very little mist. Cynthia got 1 Ichorius aureus under a rock, and I got 1 I. aureus and another Ichorius, both under small rocks. Spent the night in the municipalidad in San Pedro Yula.

into Sean
2010

Journal

La Esperanza, along MX175, Oaxaca, Mexico

March 18

In the morning, drove to La Esperanza and met with the new agent, who had been to California; he was quite pleasant and gave us permission to work. We walked into the forest above La Esperanza and tried to open a few bromeliads, but they were totally full of water. The forest here appears to be secondary and has few large trees. We searched in logs and leaf litter in cold, misty weather from 11:45-12:45 but found nothing. We drove about 15 km from La Esperanza towards Gordo Felon to a trail called Relampago or San Bernardo, which belongs to Santiago Comaltepec. After lunch, we searched from 13:45-15:45 in a very nice forest of big broadleaf trees and tree ferns, with a fair number of bromeliads. We mostly opened bromeliads but also looked under logs and rocks. I got a Craugastor in a log and a Chiropterostoma "pluvialis" in a bromeliad. Itzye got 2 more C. pluvialis and a Thorius arboreus, all in bromeliads - the Thorius is the first cline seen of this species, and a great find. Walking back, I found a Xenosaurus under a large rock in the forest - also the first cline seen. We drove to "La Habra" (C. adelos type locality) and opened the bromeliads that remained from 16:00-18:00, finding 7 C. "pluvialis", plus a Craugastor on the ground. Bromeliads had lots of water, but still had salamanders. A mist/light rain continued through late afternoon. Had planned to search along streams at night, but the truck got stuck where it was parked and almost fell off a ledge. We got it out with help from passers-by, but Pedro didn't want to risk parking again so we left. Hotel in Chetum was full so we got a tiny, expensive (\$MX600) room in Oaxaca.

Rovito, Sean
2010

Journal

Asoladero, near Carrizal de Bravos, Sierra Madre del Sur, Guerrero, Mexico

April 24 Last night, drove to Chiquila w/ Cynthia Mendoza + Saul Lopez. Woke up today and drove to Carrizal de Bravos, where we got permission from José Bettrán, the owner of the land at Asoladero, to work there. We drove there and searched in logs from - . It appeared not to have rained for a while, and everything was quite dry except inside + under logs. I quickly got a Thrinax multitemi under bark, and then found 3 more inside logs. Cynthia and Saul each got 1 more but Saul's escaped. We also got a Graugaster under a log and saw several Basilix and many Sceloporus. The habitat here is a fairly wet-looking pine-oak forest with some bromeliads and cloud forest elements. It is somewhat disturbed but still in decent shape. We then drove on and attempted to go to Cerro Teotepac, but turned back when we found out how far it was. Searched from 16:50 - 17:50 at Asoladero and then drove to Taxco, where we spent the night. I will have to return to these sites during the rainy season.

Kovito, Sean
2010

Journal

Sierra Gorda Biosphere Reserve, Querétaro and San Luis Potosí, Mexico

May 31 Yesterday, I drove to the Sierra Gorda of Querétaro and camped near Pinal de Amoles. Although it was very dry, this looked like great salamander habitat. I met Rick Boeltje, a Peace Corps volunteer, in Jalpan. We drove to the reservoir near town and found tons of metamorphosed Bufo. We swabbed 4 smaller ones (2 species) and one adult, plus a Rana. Then drove to Parador Santa Marta, west of El Madroño on Hwy 120. The habitat here is pretty trashed and it was quite dry. We looked for ~30 min and found nothing, but did locate a cave where the samples of Chironixalus magnipes collected here probably came from. I dropped Rick off and drove to Potosillos, SLP, and took a small trail w/ remnant forest to a cave 200m S of town; opened ~5 bromeliads along the way. The cave was spectacular - 2 entrances, lots of dripping water, rock formations. Continued back for ~150m before getting to a chamber filled w/ bats. Another arm of cave descends to a deep hole. Seems perfect for salamanders; found a Graugastis ~50m from shallow mouth of cave. Went to see the Cueva de la Iglesia in Ahuacatlan, but it was much drier and didn't seem very promising. The man who showed it to me told me about another "sótano" at La Barranca called Los Chorritos, which has flowing water. I spent the night in Xilitla.

Rovito, Sean
2010

Journal

June 2

Siótano de Tlamaya, San Luis Potosí and Tlanguistongo, Hidalgo, Mexico

Yesterday, I went to visit Las Pozas de Nilitla in the morning. Absolutely stunning, and seemed like great B. platydactyla habitat. Spent a while looking under rocks and a few logs, but it was pretty dry and I found only one Crangaston / Eleutherodactylus (escaped). Spent most of afternoon searching for El Siótano de Tlamaya, a C. magnipes locality. In Tlamaya, a woman at the edge of town took me to a giant hole (actually 2) that she said was the only siótano in the area (21.41804°N , 99.61039°W [± 10], 684m elev.). I dropped a rock, which took 5 sec (=123m deep) to fall; I declined to enter. Drove to Huejutha de Reyes to spend the night. This morning, drove up Hwy 105 to a forest of liquidambar, pine and other trees E of Tlanchinol (20.98489°N , 98.64021°W [$\pm 9\text{m}$], 1472m elev.). I only spent a few minutes looking, as it was very dry, but it seemed to have potential for salamanders. Didn't see any bromeliads. Drove to Molango and took a side road to Colhuacan through a nice mixed liquidambar forest (20.79527°N , 98.69608°W [$\pm 9\text{m}$], 1831m elev.). Spent ~20 min searching but it was very dry - no bromeliads, but seemed good for salamanders. Finally, drove to Zacualtepan and went 6.8 km on road to Tlanguistongo. Spent ~1.5 hr opening 13 bromeliads in pine-oak-liquidambar forest and got 2 adults and 1 juvenile Chiropterorhina. Also searched under logs but conditions were still pretty dry. Salamanders seemed pretty abundant in bromeliads, but there weren't many bromeliads. Drove back to DF since conditions didn't seem to warrant more searching - need to return after rains start.

into, Sean
2010

Journal

June 10

Reserva Nectandra, San Ramón, Alajuela, Costa Rica

Flew from Mexico to San José last night; spent night in San Ramón where I met Tom & Susan. This morning, David & Evelynne Tennette picked us up and brought us to their reserve, Nectandra, ~14.5 km N of San Ramón. We spent a while getting set up, then walked a trail along the S edge of the property from 14:15-16:00, beginning in somewhat disturbed forest and ending in secondary forest and pasture. Found 1 Rana warszewitschii under leaf litter. Searched with lights near the building by the reserve gate starting at 18:15 and got another Rana, 1 Bristlemouth (?) calling from ~2m off the ground, 4 Graugastor / Eleutherodactylus, several of which were emerging from bromeliads on the ground, a hybrid (Anolis?) - B. hylaeternis on a rock next to the road, and an Espeletia prosoblepon near the pond. It had rained fairly lightly in the afternoon, and many centrolenids and Graugastor-type frogs could be heard calling, especially near the pond and streams. We also got 2 anoles in this area. We continued on to trail A, where we got a large and a small Graugastor, plus a Silvius annulatus that was ~2.5m off the ground in a tree. We walked to the reception building and Susan saw what may have been a gecko; got an Anolis on the ground, and another hybrid (B. hylaeternis) calling from a bush nearby at the mirador. On the way back to the reserve entrance, I found a Saccharum illex in a leaf ~1m off the ground. We heard at least 1 hybrid calling along streams but never found it. Stopped searching at 21:15.

Warto, Sean
2010

Journal

Reserva Nectandra, San Ramon, Alajuela, Costa Rica

June 11

Spent some time this morning talking to the Lenettes and Alvaro Ugalde, one of the founders of the Costa Rican national park system. Spent most of the rest of the day photographing, prepping and identifying specimens. It rained quite hard in the afternoon and early evening. One of the staff, Freddy, had brought us an Anolis and a hybrid yesterday and brought 2 more Anolis today. In the evening, beginning at 18:15, we walked up trail C, starting at the end. On the way, we saw 3 E. prosoblepon (heard many more), 1 R. warszewitschii + 1 Graugastor near the pond. It was raining fairly hard and the level of herp activity seemed much lower tonight; along the trail, I found only a Graugastor (and heard many more calling). Turned back and searched near the entrance. Tom and Susan found a big DOB Atropoides nummifer on the road outside the gate and a Tinia maculata ~~nummifer~~ along the path. Near the greenhouses, Susan and I got another Graugastor (on ground) and a female anole. I then found a Duellmanohyla ruficula sitting on a leaf about 0.5m off the ground near a stream. It was barely raining when we finished searching around 20:20.

June 12

We spent much of today identifying and prepping specimens. After dinner, we went out with Felix to look at night. In the morning, we had seen 2 A. nummifer along the trails that the workers had found. In the evening, we started searching at 19:10 and walked to the mirador, finding a C. crassidigitus and a C. bransfordi along the trail. Near the mirador, we heard frogs and walked

into, Sean
2010

Journal

Reserva Nectandra, San Ramon, Alajuela, Costa Rica (cont).

June 12

... into a cow pasture, where we saw/heard a large number of Amisica phaeota along the stream. Also found several Crangston fitzingeri and many Warszewitschii. Walked back across fence into Nectandra and I found a Nototriton (gamezi?) out on a very mossy tree on the edge of the forest, ~1.5m off the ground. Was a little surprised - low elevation + forest edge seemed like a bad combination, but misty wind hits trees on forest edge directly, so this area was very mossy. Continued along path on N edge of reserve and saw 2 N. warszewitschii, 2 P. cruentus, and a C. fitzingeri. Susan found a big Sphenomorphus chesteri at the base of a tree, which we had perhaps disturbed from its hiding place. We walked along the fence line for a few hundred meters, then took trail #45 to southern limit of reserve. On the southern fence line, we came upon a large (~1.5m) Bothrops asper (10.18321°N, 84.51550°W [± 10 m], 1172m elev.), which we decided not to collect. Got back to the guard house around 23:15. It rained lightly or not at all during most of our hike, despite having rained during the day. Near the guard house, Luis found an armadillo, which I saw - my first ever.

June 13

We spent the morning identifying specimens and taking photos. In the afternoon, Fredi took us on a hike to GPS ~~point~~ several specimens he had collected for us. We got a Rhadina decorata on the trail on the south fence line, and another on trail #4 going from the south to the north boundaries. It rained intermittently as we walked; it had rained all morning as well.

Warto, Sean
2010

Journal

Reserva Nectandra, San Ramon, Alajuela, Costa Rica (cont...)

June 13

... Along the N fence line, we found 3 Graugaster fitzingeri + 1 C. bransfordi, as well as 1 Rana warszewitschii. Also saw/heard a large number of parrots in trees in cattle pasture beyond reserve boundary. In the evening, starting at 17:30, we walked with Chico along the road N of the reserve. Picked up a DOR Micrurus nigrocinctus and a DOR M. maculata ~300 m N of reserve entrance. Also found ~5 A. oxylophus on a rock wall above a small stream here - they would jump into water when disturbed. Found 2 very small Marmosa in a tree/on grass next to road; smaller than other individuals I've seen. Continued on to Chico's house, ~0.5 km N of reserve entrance, and walked along a stream on his property. Found a E. prosoblepon female on a leaf over the water. Found a Bufo coniferus ~2.5 m up in a tree fern in a cattle pasture - I've never seen an arboreal toad before. Heard, but didn't see, a frog making a chk-chk-chk-chk-chk sound; saw several C. fitzingeri + C. bransfordi, as well as 2 C. crassidigitus. Returned to the reserve and prepared most of the remaining specimens.

June 14

We prepped specimens in the morning and then spent ~30 min raking through a compost pile and looking under logs near the parking lot - found nothing. Tom found a gecko (Phyllodactylus xanthostigma) and a gymnophthalmid (Phrynosoma plicatus) under a cover object in the area. Chico brought us a DOR Micrurus, a juvenile Thrinacosuchus maculatus, and an incredibly elongate Cedipina from the house of someone

Watts, Sean
2010

Journal

Reserva Nectandra, San Ramon, Alajuela, Costa Rica (cont.)

June 14

... named Roberto, on a property also owned by the Lemneths. The Oedipina was apparently inside his house. Starting at 14:30, we walked with Fredi to the northern fence line in a heavy rain, at times lighter and at times very heavy, which didn't let up all evening. We searched in a pasture just outside the boundaries of the reserve, and saw lots of Crangaston bransfordi, C. fitzingeri, and Rana warszewitschii; heard unknown chk-chk-chk frog in trees. Tom found a Microdactylus nigrocinctus in a log, which I accidentally injured with my potato rake. We walked into the forest in La Ocotea, the primary forest patch recently acquired by Nectandra. The forest here is beautiful - huge trees with nice streams, and seems very intact. Found an Anolis oxylophus in a stream. Waited until about 18:05 and started walking back w/ lights. Saw only 2 Crangaston and a Rana before reaching Nectandra proper. The heavy rain seemed to deter herp activity, although we did here a lot of Crangaston-type frogs calling. Started back at 19:35, and saw an Atractodes nummifer along the trail, near where we had seen the Bothrops earlier in the week. I got a Bufo marinus near the visitors center. When we got back, Tom attempted to milk the coral snake for its venom to help w/ a project at UTA. The snake was difficult to handle and bit Tom on the right thumb. We immediately went to the San Ramon hospital, where they administered 4 tubes of antivenom. Tom spent the night and was OK, although the first hour was very scary and he was in incredible pain. Susan and I stayed with him until 02:30, then slept at Hotel La Pasada.

London

The first part of the report was devoted to a
description of the various types of aircraft seen
in the vicinity of the airport. It was noted that
the majority of the aircraft were of the propeller
type, but there were also a few jet aircraft seen.
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the majority of the aircraft were of the propeller
type, but there were also a few jet aircraft seen.

Raito, Sean
2010

Journal

Reserva Nectandra, San Ramon, Alajuela, Costa Rica

June 15

Woke up early today to go see Tom in the hospital. ~~He~~ He was OK but the bite had become infected. He and Susan went to San José to have it taken care of while I carried on with the survey.

Was exhausted today - slept only 2-3 hrs last night. Fixed specimens in the morning and early afternoon. In the evening, I searched on trail A from 18:15 - 20:15. Found a Thaasorus

hyalaformis coming out of a bromeliad on the ground. Saw 3

Espeletaria prosoblepon - 2 near pond + 1 along a stream. Saw

a Craugastor fitzingeri + 2 C. crassidigitus, all on the ground, and

2 Pristimantis ruentus on leaves 1.5-2m off the ground. I

heard several frogs (hybrids, I think) along streams that I don't

think we've collected yet, but I'm not sure what they are and

was unable to locate them. The day was cloudy with rain in the

afternoon and early evening, clearing up later.

June 16

In the morning, I talked w/ David for a while, then went to La Persea, the property across the street from Nectandra that the Benettes purchased last December. I was told the Oedipina I have

(SMR1116) came from under a chunk of concrete in an old sidewalk

they ripped up. I searched under chunks of concrete for ~30 min

and got 2 Lepidoblepharis xanthostigma; also saw an A. limifrons

and an A. humilis, as well as several other anoles I couldn't ID.

I found a Craugastor bransfordi under a rock. Walked the trail

around La Persea for ~40 min but saw nothing more. At 15:30,

Luis Villa and Marique came from San Ramon to accompany

History

The first part of the history of the world is the history of the human race. It is a story of progress and struggle, of triumph and defeat. It is a story of the human mind, of its power and its limitations. It is a story of the human heart, of its joys and its sorrows. It is a story of the human spirit, of its hopes and its dreams. It is a story of the human race, of its past and its future. It is a story of the human world, of its beauty and its ugliness. It is a story of the human race, of its past and its future. It is a story of the human world, of its beauty and its ugliness.

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into, Sean
2010

Journal

Reserva Nectandra and Finca Ocosta (Zarcero), Alajuela, Costa Rica (cont)
June 16 Fredi and I to Finca Ocosta, a property 8.7 km NE (by rd) of Zarcero, about an hour's drive from Nectandra. Before we left, Fredi brought a dying Diploglossus bilobatus he had found on trail F. It had several puncture wounds on its neck and venter - might have been bitten by a snake? We drove to Finca Ocosta, arriving around 17:20, and searched under stones along a path through grassy areas with some trees as we walked to the forest. We arrived at a forest patch at dusk. The forest was swampy, with poor drainage and large areas of standing water. Many of the trees had stiltlike roots and were extremely mossy; there was an understory of Clusia, a little Chusquea, ferns, and other plants. I quickly caught 2 Anolis trinitatis active on vegetation and a Craugastor podicipinus. Fredi got 2 more C. podicipinus and a Diosaurus hyalaformis. Mandryne and Luis caught a D. hyalaformis and I saw one as well; their chirps formed a deafening chorus - they were extraordinarily abundant. Heard 2 other frog calls, one of which was probably a larger hybrid. Stopped searching around 21:15 and slowly walked back, searching along path. Found 3 Aythya pseudopuma in ponds formed by cuts on trail, and saw many tadpoles. Got to car around 22:30, and arrived at Nectandra after midnight. It rained during the afternoon and early evening but pretty much stopped after about 19:00. It was much colder at Finca Ocosta than at Nectandra, because of the elevational difference.

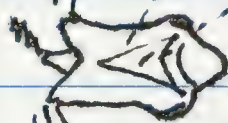
Cryptotriton

12/21/09 Peña Verde ~~Therapsid~~ - SMR965 - Color notes (in life)

Venter

Pale grey-white spots cover gular region on a dark brown background. Dark brown color extends to tip of tail on underside, with grey spots (extensive, as on gular region) extending to just beyond insertion of forelimbs. Few spots continue down center of venter to insertion of hind limbs. Scattered grey-white spots extend $\frac{2}{3}$ of way down tail. Underside of limbs is pale brown. Dark brown ventral coloration meets lighter dorsal coloration at midline on flanks.

golden brown, slightly darker brown



Dorsum

also speckled
with black and
greenish-brown.
greenish-

Rostrum medium brown. Golden brown patch extends from concave line between front corner of eyes (including "eyelids" to back of head, including sides of head, with a slightly darker brown triangle extending from eyes to midline at back of head. Dorsum is medium brown, with paler golden brown on sides where dorsal meets ventral coloration, with some black flecks on sides amidst golden brown. Dorsal surfaces of limbs orangish-brown mottled with darker brown. Tail from insertion of hind limbs to $\frac{1}{2}$ way to tip is greenish golden-brown, with dark brown + black specks, $\frac{1}{2}$ way to tip of tail darker brown (same color as dorsal midline). Sides of tail same as sides of body. Eyes dark golden brown

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24

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Color notes on Pseudoeurycea sp. - Huatusco SMR 893

dorsum dark chocolate brown w/o any spots or markings
sides of body (roughly at midline) mostly light gray (mottled)
w/ brown speckles throughout - same on gular surface back
to gular fold, and on sides and ventral surface of tail - ^{+ underside} of limbs
venter dark brown w/ very small gray specks
dorsal surface of limbs same color as dorsum
feet brown w/ some light gray speckles above, brown below
nose has gray speckles, as do "eyebrows", which are mostly gray
eye is dark brown (iris)
dorsal color on tail changes gradually from dark chocolate brown
to medium brown at tip

variation (SMR 894) - venter is gray (like very tiny gray dots
on dark brown background) w/ very dark brown spots
on sides + at base of tail, between ventral + lateral gray
coloration

several (5) ladder-like pale orange-brown blotches on dorsum
lighter brown dorsal color compared to SMR 893³, still lightens toward
tip of tail. Almost no gray color above eye

Journal

June 27

Durango, Parque Nacional Los Marmoles, Hidalgo, Mexico

I got a late start today, leaving DF around 11:00. Drove to Mineral del Monte and on to Omitlán, just past Guerrero - the type locality of P.c. manni. Looked on a hill S of town for ~30min, but it was extremely dry. Drove into PN El Chico and searched briefly, with the same result. Headed on to the town of Durango, Municipio Zimapán, in PN Los Marmoles. This is the type locality of Chiropterotriton mosaueri, which was found in a 20 ft deep cave above the town. I found Javier Frigol, a delegado, who took me to see Juan Alvarado (Tel: 77-2126-9912, 77-2125-1047) who knew about a cave where the town got its water from. He said it is a natural cave (although they expanded the opening) that flows with water when it rains, and is completely full of water starting ~30m in. I went w/ Javier and 2 other men and entered the cave around 19:45. The opening is basically a hole at the head of a gully that goes into the mountainside, and is large enough to move through crouched over. I immediately found an adult C. mosaueri, which was on the lower part of the cave wall near the entrance and moved rapidly to escape. I continued in and found a juvenile C. mosaueri on the wall, plus a large adult C. magripes. I went in 20-30m; walls are covered in mud and there are some small stalactites; didn't reach the water. Found 3 more C. magripes on the cave ceiling, all near the entrance; they are much more sluggish than the C. mosaueri. I was then treated to a dinner of barbacoa and beers. Spent ~20 min total searching. Was told there are at least 20-30 caves (sotanos - vertical shafts) near town, but most are 50+m deep. Drove back to DF, arriving at 03:30.

Warto, Sean
2010

Journal

Cordoba area, Veracruz, Mexico
July 6 I left DF around 5:30AM and drove to Fortín de las Flores. Stopped at some house in Fortín Nijo where I searched before and looked under logs and rocks for about an hour (~09:00-10:00). Found 2 colubrid snakes (Geophis semidoliatus), 1 under a rock and 1 under a palm frond; didn't search for B. rufescens in bananas. Drove E out of Cordoba to Potrero Nijo and asked around for hacienda El Huevo; no one knew it, but there are lots of old, ruined buildings in the area. I drove N from Paraje Nuevo to the nacimiento del Rio Atoyac, down a side road from the main Paraje - La Charca road that ends ~~near~~ at the nacimiento. This area has tons of limestone and some parts have good forest. I searched from 14:45-16:00 but found only Bufo valliceps (saw 3, kept 1). I then walked up a trail through the forest to a steep hillside with lots of limestone outcrops and searched in cracks with a flashlight from 17:00-19:30 in a moderately heavy rain. Saw only 2 more B. valliceps and 1 B. marinus. Seems like some salamander should live in all this limestone. Wanted to search at night but was exhausted; got a room in Fortín.

Fortín de las Flores, Veracruz, Mexico
July 7 At gas station this morning, found out power steering oil cap was missing; must have left it off last time they checked it. I spent all day waiting for to be fixed, and the power steering no longer worked once the mechanic replaced the part; had to spend another night in Fortín. During the wait, I searched under palm fronds and stones in a wooded lot across from Hotel Fortín de

Rovito, Sean
2010

Journal

Fortín de las Flores, Veracruz, Mexico (cont)

July 7

... las Flores; found 2 Ninia (~~sp. diaboli~~) both under palm fronds. A very heavy rain fell in the afternoon and it continued to rain moderately until ~ 22:00. I searched with a light in town beginning at 20:15 and found 2 B. platydactyla crawling on a wall and 1 on a leaf next to the wall about 1 block W of the train station. Walked out to Fortín Viejo and found an Eleutherodactylus on a wall along the road. Stopped searching at 21:30.

Finca Nueva Alemania, N of Tapachula, Chiapas, Mexico

July 10

I spent 2 days driving to the Chimalapas and getting permission to work in Matías Romero, Santa María + San Miguel Chimalapa. Arrived in Tapachula around 12:00 and met up with Antonio Muñoz. We drove to Finca Nueva Alemania and searched for ~1 hr in wood piles + under logs in cafetales. Found lots of Bufo (~8), Eleutherodactylus rubrimaculatus, Craugastor rhodophis, Sphaeromorphus assatus (saw 4). Went back to Tapachula + got a room. It rained a little in the afternoon but not enough to keep the road wet for salamanders in the evening. We drove back up the road around 20:30, and proceeded to a wet roadbank ~22 km from MX 200. Found a big Craugastor, a bunch of Rana, and heard E. rubrimaculata calling. Searched for ~1 hr, then found a ~~Sphaeromorphus~~ on the road, which I accidentally hit and collected. It did not rain more later in the evening.
Microtus (lived)

The first thing I noticed when I stepped out of the car was the cold. It was a sharp contrast to the warm blanket I had been sitting under. I looked up at the sky, which was a pale, overcast grey. The air felt heavy, like it was holding its breath. I took a deep breath, trying to get used to the temperature. The ground beneath my feet was wet and slippery, a sign of the recent rain. I walked slowly, my boots making soft, muffled sounds on the pavement. The city around me was quiet, almost eerily so. The usual hum of traffic and the chatter of people seemed to have been silenced. I felt a sense of isolation, as if I was the only person in the world at that moment. The buildings lining the street were dark and shadowed, their windows reflecting the dim light. I continued to walk, my mind racing with thoughts of what might be ahead. The silence was both comforting and unsettling, a mix of emotions that I couldn't quite put into words.

100

I walked on, my feet finding their way through the wet streets. The cold was still there, but it wasn't as oppressive as before. I started to feel a sense of purpose, a need to know where I was going. The city, though quiet, still had a life of its own. I could see the occasional car in the distance, its headlights cutting through the mist. The buildings, though dark, still stood tall and proud, their architecture a testament to the city's history. I felt a sense of connection to the place, a feeling that I had been here before, even if it was just in my dreams. The silence was no longer a barrier, but a bridge, connecting me to the world around me. I took another deep breath, feeling the cold air fill my lungs. It was a refreshing change, a reminder of the beauty of the world. I continued to walk, my heart beating in time with the rhythm of the city. The silence was a gift, a chance to see the world as it really was, without all the noise and distractions. I felt a sense of peace, a feeling that I had found what I was looking for. The city was still there, still full of life and possibility. I was just a part of it, a small piece of the puzzle. I walked on, my mind at ease, my heart content. The silence was no longer a barrier, but a bridge, connecting me to the world around me. I took another deep breath, feeling the cold air fill my lungs. It was a refreshing change, a reminder of the beauty of the world. I continued to walk, my heart beating in time with the rhythm of the city. The silence was a gift, a chance to see the world as it really was, without all the noise and distractions. I felt a sense of peace, a feeling that I had found what I was looking for. The city was still there, still full of life and possibility. I was just a part of it, a small piece of the puzzle. I walked on, my mind at ease, my heart content.

Kantor, Sean
2010

Journal

July 11

Japachula area, Chiapas, Mexico

Drove up the road to Finca Nueva Alemania, looking for older, shaded cafetal habitat. Started searching in castakes under logs at 10:30 AM; searched in good habitat on edge of woods ~18 Km up road for 1 hr but found only Eleutherodactylus + Craugastor. Moved to a second site 17.1 Km from MX200 and searched for ~1 hr, first in a cafetal and then in a road bank. I accidentally killed an Ameiva in the road bank, which we collected. Moved on to some banana trees in overgrown habitat 14 Km from MX200. Got 2 B. occidentalis in these before emerging into more open cafetal habitat, parts of which appeared to have been cleared of large trees in recent years. There were tons of red bananas and many logs. Found 2 more B. occidentalis + an adult B. flaviventris (the object of our trip here), as well as a J. venulosus, in bananas; saw many E. rubrimaculata, C. rhodophis, D. assatus, and Anolis; also saw 1 Ninia sebae, 2 N. diademata, 1 Aeghis + 1 Rhadinea (collected) under logs and 2 Sceloporus siniferus on logs. Got a large Mabuya in a banana tree. It rained fairly hard for ~30 min during the afternoon, then intermittently. We went back (stopped searching at 15:50) to prepare specimens, planning to drive the road at night, but my car seemed to have problems + the check engine light went on. We decided to stay in because of this, not wanting to damage it if it was not working properly, despite some more rain in Japachula in the evening.

into, Sean
2010

Journal

Cerro Baul, Chiapas, Mexico

July 14

Spent all of the 12th waiting in Tapachula for car to be fixed; was finally ready at 13:00 on the 13th. Drove to Acancoyagua and searched for habitat at Finca La Esperanza, now called ^{xx} de Septiembre, 5 km E of Acancoyagua. Found no good banana plantations but did get a ~~Miller~~ Leptodeira under a log along the road. Arrived late in Justa Antúnez. This morning, Antonio, his daughter Natasha, and I drove to Cerro Baul, arriving in the town of Rodolfo Figueroa around 13:00. We started uphill through disturbed oak forest, continuing into a moister oak forest around 1500m elev. We cut our way through to an open area w/ lots of limestone and arrived at a small cave where Antonio had found a single specimen of a black Chalotriton similar to C. niger. We entered the cave around 15:00 and found a juvenile of the black Chalotriton on rock at the cave entrance. The cave is relatively small/narrow (only 1 person can advance in any given direction) but appeared to have quite an extensive system of passages. The rock surface was very moist with tons of cracks + lots of cave rock formations. We quickly found another 8 Chalotriton (collected 5), all of which were crawling on the cave walls or ceiling within ~5m of the entrance; both Antonio + I went further in but didn't find more. These animals appear lighter than the photos I've seen of C. niger; they are very dark brown/grey with paler grey venters, and the biggest one we got has light grey blotches on its back. Stayed in the cave for ~30 min, but active search time was more like 10 min. The recent heavy rain appears to have caused the salamanders to be

Carlo, Sean
2010

Journal

July 14 Cerro Baul, Chiapas, Mexico (cont)
... very active; if there are other, similar caves, there may be large numbers of them here. We then continued uphill through a shaded coffee plantation and broadleaf (some oak) forest w/ big bromeliads, finally arriving at the antennas on top of Cerro Baul. This area was burned in the past and has scattered pine + cypress trees laden w/ bromeliads amidst scrub vegetation. I found several small openings to what may be caves amongst the limestone boulders covering the ground. Antonio + I opened ~40 bromeliads here b/w ~ 17:15 and 19:00 but found nothing (16.56530°N , 94.16819°W [$\pm 5\text{m}$], 1966m elev.). The bromeliads were completely filled w/ water and didn't even have insects in them. We walked downhill back to town in a light rain and I found a B. occidentalis crawling on a rock on the ground just after dark. Drove back to Antonio's house in Tuxtla.

July 15 Selva Negra, road from Pueblo Nuevo Solistahuacan to Rayon, Chiapas, Mex.
Got a late start, took photos + prepared specimens. I left to drive to Merida for a family vacation, stopping at Cryptotriton alvarezdeltoroi type locality along road to Rayon. Searched from ~ 21:00 - 21:40 in a moderate rain, but found only Plectrohyla ixil (abundant, w/ many metamorphs). The canyon is even more altered than before and I doubt Cryptotriton still persists here.

ovito, Sean
2010

Catalogue

June 11 SMR1096 Craugastor fitzingeri adult → From fence line
1097 Anolis capito juv. → From guardhouse
brought by Freddy

Ixalotriton color notes 7/15/10

SMR1889 (largest)

ventral: gular region cream colored with ^{pale} brown mottling, ~50% brown in middle of gular region + almost all brown on chin + in front of gular fold. venter ~~pale~~ brown w/ grey specks. Underside of forelimbs cream + brown mottling, hindlimbs nearly uniform brown. Underside of tail uniform dark grey. Dorsal: very dark brown w/ some light grey patches, esp. b/w eyes. Tail uniform v. dark brown, as are hindlimbs. Feet ~~dark~~ dark brown w/ reddish toe tips, hands ~~light~~ ^{pale} brown w/ reddish toe tips. Sides of body ~~grad~~ grade gradually from dorsal to ventral coloration. Sides of head similar to dorsal coloration above lip + to ventral coloration below lip. Underside of feet pale grey, → legs overlap by ~3 caudal folds toe tips red.

SMR11890: similar, but coloration on all parts of body more uniform. Dorsal surface uniform dark brown w/ no paler spots.

- SMR 1191-93 also like this

Dear Sir,
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the matter of the ...
and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.
I am, Sir, very respectfully,
Your obedient servant,
J. H. ...

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the matter of the ...
and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.
I am, Sir, very respectfully,
Your obedient servant,
J. H. ...

I am, Sir, very respectfully,
Your obedient servant,
J. H. ...

Carto, Sean
2010

Journal

Aug. 1

Sierra de Alvarez, San Luis Potosí, Mexico

Left DF yesterday w/ Abby, Jorge, Tom + Susan and drove to San Luis Potosí. This morning, we drove towards Rio Verde up into the Sierra de Alvarez and went to El Valle de las Fantasmas. Spent a while looking for a cave for Chiropterostoma multidentatus, which we never found, in oak woodland habitat. Tom found a Plestiodon brevirostris under a rock during ~20 min of searching. Drove on to Honey Fariás and met Ely, who works for CEF (Centro ~~Interactivo~~ ^{Interactivo} Ecológico) at Rancho El Cielo. Spent the night at Hotel Posada Campestre; owner told us how he had found a B. platyactyla and showed us photos.

Aug. 2

Alta Cima and San José, Reserva de la Biosfera El Cielo, Tamaulipas, Mex.

Started up toward Alta Cimas around 09:00, arriving in Alta Cimas ~1 hr later. A guide took us to a large cave on a side road from the road to San José, which was ~1 hr walk from Alta Cima. He said it had no name, but they call it "La Cueva del Salto"; it was in a transition area from dry forest to cloud forest. The cave had 2 main chambers with lots of stalactites and rock formations, as well as pottery fragments. We spent ~30 min in the cave and found 7 Pseudoeurycea scandens (collected 5), all on the walls or ceiling of the cave. All but 1 was an adult, and they all appeared to be similar in size (large for Pseudoeurycea, maybe 10 cm total length) and in color (black with lichen-like whitish grey marks). Ely had found a small Chiropterostoma in this cave, but we saw only 3 P. scandens. We had planned to

Warts, Sean
2010

Journal

Aug. 2

Atta Cima and San José, Hacienda la Esperanza El Cielo, Tamaulipas, Mexico (cont)

... visit another cave, but we decided to continue uphill to San José, the only area where Ely had found P. cephalica. Continued on w/o stakes or a bromeliad cutter. We soon entered the cloud forest, composed mostly of Podocarpus with Liquidambar. I found a P. "cephalica" in a roadbank and another under the bark of a log. Darryl got a P. scandens under a log and Susan got 1 under a rock; Jorge got 2 more in a fallen bromeliad. The P. "cephalica" doesn't look anything like the ones from Veracruz; they have yellow legs, white spots on a brown background, and a relatively small size. We proceeded to find 2 more P. "cephalica" on the road to San José -

Tom got one under a small board, and I found one in a bromeliad. Tom also found a Xerophorus cystignathodes under a small rock, and found but lost one under a log. Jorge found 2 more P. scandens in fallen bromeliads. Gabriela found a very small, graceful Chiropterobatrachus in a bank just before the small village of El Valle de Cima. Just past the town, I got a second species of Chiropterobatrachus in a bromeliad in a Podocarpus; this salamander had a more robust body and larger feet than the other Chiro. We ate in San José and then walked back to Atta Cima. On the way up and down, we saw Xenosaurus platiceps + Lepidophyma in cracks in limestone along the path. We searched in the forest from ~12:00 - 16:00. Arriving at CIE in the evening, we found a Bothrops asper in the parking lot. The day was warm and partly cloudy.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

1. The first part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them. The list includes names such as "Mr. J. H. Smith", "Mr. W. H. Jones", and "Mr. R. H. Brown".

... ..

Rovito, Sean
2010

Journal

Aug. 3

Rancho El Cielo, Reserva de la Biosfera El Cielo, Tamaulipas, Mexico

We spent a long time this morning waiting for the reserve director, Jean Louis, and arranging for a truck to take us to El Rancho El Cielo. Around 11:30, we finally left; it took us ~1.5 hr to arrive at Rancho. Susan found a P. cephalica under a log as soon as we stopped, and I got another under a fallen branch amongst the ranch buildings. This Ranch is a field station for a university in Texas and has very restricted access; the buildings and grounds are really beautiful. Around 14:00, Jean Louis led us to "La Cueva de la Salamandra", a fairly small cave with a large entrance. We saw only 1 P. scanders inside, and a smaller, drier nearby cave had none. We walked across the ranch to La Cueva de Cristal, which had a smaller, steeper entrance leading to a very big room with spectacular (though vandalized) rock formations. We saw 7 P. scanders on the cave walls and ceiling but only collected 1. We then walked along the ~~western~~ limit of the property and opened 18-20 bromeliads in podocarp - liquidambar forest. We got 9 Chiropterostoma, including 2 adults from 1 bromeliad. All were small, and we are not sure if they are C. draconis, C. multidentatus, or both. Susan later got one near the ranch buildings in a fallen bromeliad. Saw 2 Rana in a spring (Ojo Encantado) - seems like a strange place for them. Went to 1 more cave but the entrance was dangerous so we stopped searching (~18:45-19:00). Tom + Susan went out for ~20 min around 21:00 and found a P. cephalica crawling across the grass amidst the buildings, despite the fact that it hasn't rained in 4 days and was rather dry. I searched from ~22:30-22:50 but found nothing.

[illegible]

Rantz, Sean
2010

Journal

Aug. 4 Rancho El Cielo and Ciudad del Maíz, Tamaulipas + San Luis Potosí, Mexico
We woke up today, and took photos of specimens, then packed and left. On the way down, we stopped at Cuerva Grande, a large cave along the road with a big opening in the drier low elevation forest. It was quite moist in some areas, and Jorge found a large Chiropterotriton on the cave wall near the entrance. It has a long tail and looks different than the others we got. We also saw 3 Pseudoeurycea, spent ~20 min searching. We spent some time at CIE, then drove on towards Ciudad del Maíz. We stopped at the turnoff to Microondas Las Antenas S.L.P. and opened ~20 bromeliads from 18:45-20:00. We got 5 small Chiropterotriton multidentatus, 2 of which were in the same bromeliad. The habitat is oak forest with big bromeliads (both the wide-leaved kind and the paler green, thin-leaved kind), with palms, mala mujer, and thorny understory plants; the area has a lot of limestone rocks and parts were cleared for cattle grazing. I found a Lepidophyma oculare under a rock (and saw 1 under a log), as well as an Aspidoscelis gularis under a log and 2 Sceloporus variegatus that were out foraging. I saw a big Crotalus totonacus that had been beheaded and left out. Weather was warm + sunny all day. Spent night in Ciudad del Maíz.

Aug. 5 Went back to the same site (other side of road) and searched for ~40 min. Got a Bufo melanifer, Sceloporus variegatus, and a Rhadina gaigeae, but found no Pseudoeurycea (our goal). Were told that the microondas have fir forest, but we didn't have time to visit. Drove back towards Ciudad del Maíz, looking for P. cephalica site, but habitat seemed either too dry or very disturbed. Drove up and drove back to D.F.

The first part of the paper is devoted to a general
discussion of the problem. It is shown that the
problem is of great importance and that it is
not yet completely solved. The author then
presents a new method for solving the problem.
This method is based on the use of the
Fourier transform. It is shown that this
method is very effective and that it can be
applied to a wide range of problems. The
author then gives some examples of the
application of this method. It is shown that
the method can be used to solve problems
in physics, engineering, and mathematics.
The author concludes by stating that the
method is a valuable tool for the solution
of many problems. It is hoped that the
author's work will be of help to other
researchers in the field.

100

100

8/7/10 Pseudoeurycea "cephalica subrimembris" - color description

Top of head grey-brown, fading to grey onto eyelids. Dorsum dark reddish-brown with small pale brown specks away from midline. ~~Midline~~ ^{Brownish} Cream blotch just posterior to L forelimb. Dorsal surface of tail begins w/ dorsal coloration at insertion of hind limbs, lighter red-brown on posterior half of tail. Last ~1 cm of tail pale brown. 3 lichen-like cream-brown blotches on dorsal + lateral surfaces of tail. Fore + hind limbs orange-brown between body + knee, then medium brown to feet. Feet mottled grey + brown. Sides of head mottled grey-brown, reddish brown in paratoid region. Lateral surface of body gradually fades from dorsal to ventral coloration. Sides of tail similar to ventral tail coloration. Gular region ~~the~~ medium grey w/ pale grey mottling. Venter dark (slate) grey with pale grey mottling. Ventral surface of tail similar but pale grey more blotchy. Undersides of limbs have same ventral coloration as body. Undersides of limbs pale brown, toe tips reddish.

Handwritten text, likely a letter or document, written in cursive script. The text is mostly illegible due to extreme fading and blurring. It appears to be a formal or semi-formal communication, possibly a letter of introduction or a business correspondence. The text is organized into several paragraphs, with some lines starting with capital letters. The handwriting is elegant but difficult to decipher. The document is on aged, slightly yellowed paper with three binder holes visible on the right edge.

Rovito, Sean
2010

Journal

La Fortaleza, Oaxaca, Mexico

Aug. 9

Yesterday, I left DF w/ Tom + Susan, Gabriela, Luis Conner and Ted Papenfuss. Drove to Matías Romero to spend the night. Went out driving along road to Salina Cruz + got 5 Engystomus pustulosus, 1 Dendropsophus microcephalus, 1 Scaphiophryne, 1 Macrophryne + 1 Thamnophis proximus in a roadside ditch 4km S of town; also

heard Bufo. Today, drove out on road towards Poblado Catorce (Rio Uspunapa), Veracruz, along northern edge of the Chimalapas. Turned S at Poblado Doe to La Fortaleza, just across border in Oaxaca.

Were allowed to set up in municipal building. Went out with guide to a cave next to town w/ bats + nice rock formations; found nothing inside. Walked on through a mix of disturbed forest + pasture with a lot of limestone; Luis got a Lepidophyma tuxtlae under a log. Got a Craugastor rhodopsis in leaf litter, an Anolis trispinatus on a rock (saw another) and a Corytophanes hernandezii on a banana. Searched for 2-3 hrs in the afternoon; then went back out along same trail at 21:30. I got an Eleutherodactylus leprus, a C. rhodopsis, and a Coleonyx elegans among plants next to the trail; others found a C. rhodopsis + 1 Anantodes anchoa. Started to rain incredibly hard; Ted turned back at 22:00, Tom + Susan at 22:30.

We got a Amphisbaena (heard many) in a grassy clearing, plus a Dendropsophus microcephalus. At entrance to good forest, got a big Clelia cyathina and a C. rhodopsis, then another Amphisbaena and a big Craugastor berkenbuschi. Forest further on is in good shape - big trees w/ huge buttresses + a nice, clear stream. At house, got another Amphisbaena and a Bufo marinus. Rain stopped around 23:30, stopped searching at 00:00.

Rovito, Sean
2010

Journal

La Fortaleza, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico

Aug. 10 Spent all morning prepping specimens. Went out w/ our guide, Lorenzo, and another guide to a patch of forest SE of town. Started in cattle pasture around 14:00, hiked into a forest w/o big trees and w/ a thick understory of spiky palms, thorns, lianas + bamboo. Searched for ~45 min before Tom went back (felt sick) + Susan went with him. Searched under tons of logs but found nothing. Finally got a Sphenomorphus assatus that was out amongst the leaves at the base of a small palm. Finally arrived at a better patch of forest that hadn't been burned - bigger trees, thick leaf litter, sparser understory. Continued to look under good logs; found only a Graugaster (pygmaeus?) that got away. Walked back out to road. Luis searched in some green bananas, got a B. rufescens. Stopped at a magnificent cave on the way back w/ huge chambers, beautiful rock formations, clear pools + a few bats but found no herps. Returned to base around 18:00. At night, everyone but Ted went out to search. Found Rana + Bufo salicarpus around town, plus tons of B. marinus. Along trail, got 2 C. alfredi (saw ~2 more), 4 C. berlandierii (only in good forest), 1 Eleuthero, a Sphenomorphus chiriviri (killed when captured) and 3 Anolis barkeri (collected 2) along stream. I saw a thin yellow tail under a rock in shallow water in stream + we spent ~20 min searching before we figured out they were freshwater eels. We searched from 21:10 - 00:00; Tom + Susan turned back around 22:45. Rained moderately hard from ~ 22:15 - 23:00, was reasonably cool for most of day.

Carto, Sean
2010

Journal

La Fortalaya, Mpio. Santa Maria Chimalapa, Oaxaca, Mexico

Aug. 11

Spent morning prepping specimens. Afterwards, Daby, Luis + I went w/ Lorenzo to visit an area of primary forest SW of town. Walked through pasture for 30 min, then started searching in the forest at 15:00. Started to rain very hard almost immediately. We lost Luis, who went to search in the pasture where there were lots of logs. He found a Dermophis mexicanus + a Boa under different parts of the same log. We searched in logs, under rocks + raked through leaf litter in nice forest until 18:30; I found only a C. berkenbuschi along a stream. At night, Ted went out + found a Celina, 1 Anolis ~~barbieri~~, a Leptodectylus melanostus + 4 Craugastor. We (everyone else) searched along a path starting near the 2nd cave we had visited yesterday. Got an Ameiva, 1 Anolis brachydactylus, 1 Chionactis, 1 Leptodeira polyzona + 1 huge female Bolitoglossa albari climbing up a small tree. Also saw a Xenosaurus + 2 Lepidophyma. Searched from 22:00 - 01:00. Rained until ~18:00, then was cool.

Aug. 12

Spent most of morning prepping. Everyone but Ted went to the nice area of forest (and another nearby patch) and searched from 13:10 - 14:50; found only 3 Craugastor rhodopis. Got a Uinia setae + a Leptodeira mexicanus from logs in cattle pasture. Cleaned up, packed, and drove to Matias Romero to spend the night.

Kanto, Sean
2010

Journal

La Encarnación, PN Los Marmoles, Hidalgo, Mexico

Aug. 19 Sean Schaville and I left OF around 12:00 and drove to La Encarnación in Parque Nacional los Marmoles. After driving through pine forest, arrived at a patch of nice oak forest with a lot of moss + many rocks. Almost immediately, Sean got a big female P. cephalica under a small piece of wood + 2 Chiropterostictus chondrostegus under rocks. I found a male P. cephalica in a roadbank. Searched for ~30 min. At night, started searching along roadbank at 21:00 after a brief afternoon rain (orographic). Found 8 P. cephalica on mossy roadbank along a ~100m stretch in the forest. Continued on to a rock wall, where I found 1 more P. cephalica (didn't collect, stopped seeing them after this), as well as a Pseudoeurycea bellii emerging from the wall and a Xenopus at its base. Further on, found 2 more Chiropterostictus chondrostegus on a roadbank. Turned back + stopped searching at 22:00 after activity appeared to have died down.

El Lobo, Querétaro, Mexico

Aug. 20 Searched in ~5 bromeliads on road from Agua Fria to Pisaflores; found nothing. Took a long, slow road from Pisaflores to El Lobo via Agua Fria. Searched under logs at Parador Santa Marta, W of El Lobo, from 16:40-18:40, found 1 Plestiodon + 2 Lepidophyma (not collected). Habitat was pine-oak-madrone w/ poison oak + lots of logs. Went into a cave ~100m N of road. Searched great for salamanders but saw none; found some incredible pre-Columbian pottery. 5th car stuck in Los Patrerillos, slept in ~~the~~ Xilitla.

Intro, Sean
2010

Journal

La Trinidad, Mpio. Xilitla, San Luis Potosí, Mexico

Aug. 21 Spent ~1 hr at Las Pozas in the morning. Drove to Ahuacatlán and searched in the Cueva de la Iglesia (tunnel + cave just W of church). Was maybe a little wetter than last time but found only an Eleutherodactylus ~ 5 m from back entrance. Cave had a ton of trash in it but more interior part seemed OK. Drove to Potreros and spent ~1 hr exploring cave there; found another Eleutherodactylus (same species) near entrance. Went ~200 m back in cave to a huge chamber w/ flowing water + lots of bats. Seemed like great conditions for C. macrinus but saw none; they may be extirpated here. Drove back to Xilitla and up a very steep road for ~16 km to La Trinidad, a community of ~100 people set up to receive ecotourists. Spent 45 min searching under logs in ~~beautiful~~ beautiful cloud forest composed of Alseis blackiana, Pinus sp., cypress, and other trees with lots of moss + tons of great bromeliads (too full of water for salamanders). Found a small Grotalus, 1 Lepidophyma + 1 Plestiodon under logs (not collected b/c not on permit). Started searching along a rocky roadcut w/ lots of moss ~0.5 km from town at 20:30; moderate to heavy rain started to fall when we began searching + continued into the night. Found a Pseudoeurycea "cephala" somewhat resembling those from El Cielo, but more reddish in color + w/o yellow on limbs. Also found 5 Chiropterostictus that resemble either multidentatus or arbores - long tail + somewhat webbed feet. Dug 3 enormous Pseudoeurycea bellii out of holes or burrows; all were only partially out, and we dug quite a bit to get one. Also saw several Lepidophyma and a small juvenile Grotalus. Stopped searching at 22:00 and camped.

Puerto, Sean
2010

Journal

Pinal de Amoles area, Querétaro, Mexico

Aug. 22

Drove down from La Trinidad to Xilitla and then on to Pinal de Amoles. Stopped at Campo Santo, 1.1 km E of town, and searched from 15:45 - 16:35. Found 1 juvenile Pseudoeurycea bellii + 1 Geophis under stones along a mossy rock wall in the pine forest + another juv. P. bellii under a small piece of wood. Drove E to road up to Microondas La Pingüica and searched in oak forest from 17:00 - 17:30. Focused mostly on road bank but found only Sceloporus; I got a male Pseudoeurycea cephalica under a piece of bark. Weather was cool and misty. Drove up to microondas, where it was cold, windy and rainy. Searched under rocks along road from 18:30 - 19:00 and found 3 tiny P. bellii (2 under same rock) as well as several Sceloporus and Plestiodon. Went back out after ~~the~~ dark in light to moderately strong rain, very strong wind; temperature dropped considerably (perhaps to 14°-15°C). Searched from ~20:45 - 22:15. Found 2 small adult P. bellii, 1 on mossy bank + 1 in a hole. Also found a Chiropterotriton out on a rocky section of bank - has a very short snout, dark brown color, relatively small body + short tail. Looks somewhat like the C. chondrostega we got in PN Los Marmoles, but it could be something different. Conditions got too windy + rainy so we gave up searching. Habitat here is open pine woodland w/ agave and what look like ericaceous shrubs in the understory; rocks in roadbank appear to be slate.

5/10/19

July

Dear Mr. [Name],
I have the pleasure to inform you that your application for the position of [Job Title] has been received and is currently under consideration. We are impressed by your qualifications and experience, and we are confident that you will be a valuable addition to our team. We will contact you again once a final decision has been reached. Thank you for your interest in our organization.

Yours faithfully,
[Signature]

Color descriptions (in life) - Quetzaro / S.L.P. 8/26/10

SMR1334 Chiropterostoma sp. adult ♀

Head, dorsum, tail

Head pale orange-brown. Broad dorsal stripe of tan bordered on both sides by thin dark brown line from just behind forelimbs to insertion of hind limbs, w/ scattered dark brown flecks w/ in stripe. Paired elongate orange spots above sacrum. Dorsal surface of tail orangish-brown, w/ dark brown fleck, becoming more numerous posteriorly. Tail tip black.

Dorsal surface of limbs pale orange-brown, toe tips reddish.

Sides of body + all ventral surfaces pale (virtually unpigmented), w/ yellowish tint on tail. Iris copper.

SMR1333 Chiropterostoma sp.

Dorsal surface of head dark brown, paler golden brown in parotoid region. Broad dark golden-brown dorsal stripe down back, with indistinct thinner dark brown stripe along middle of dorsum. Same dark golden-brown coloration extends onto tail, with specks of dark brown + black throughout. Dorsal surface of limbs dark brown. Sides of body + head pale brown, with a dark brown stripe separating lateral + dorsal coloration. Sides of tail dark brown w/ specks of golden brown. Anal region very pale grey, also venter just posterior of forelimbs. Venter pale grey-brown. Ventral side of tail pale grey on anterior half, darker on posterior half, w/ tiny golden brown flecks throughout. Ventral surface of limbs grey, toe tips red. Iris copper.

1. The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are in agreement with the experimental facts.

2. The second part of the paper is devoted to a discussion of the specific properties of the atom. It is shown that the specific properties of the atom are determined by the laws of quantum mechanics, and that the laws of quantum mechanics are in agreement with the experimental facts.

3. The third part of the paper is devoted to a discussion of the applications of the theory of the structure of the atom. It is shown that the theory of the structure of the atom has many important applications in physics and chemistry.

4. The fourth part of the paper is devoted to a discussion of the future of the theory of the structure of the atom. It is shown that the theory of the structure of the atom is still in the early stages of development, and that there are many important problems that need to be solved.

5. The fifth part of the paper is devoted to a discussion of the conclusions of the paper. It is shown that the theory of the structure of the atom is in agreement with the experimental facts, and that it has many important applications in physics and chemistry.

6. The sixth part of the paper is devoted to a discussion of the references. It is shown that the references are in agreement with the experimental facts, and that they have many important applications in physics and chemistry.

7. The seventh part of the paper is devoted to a discussion of the acknowledgments. It is shown that the acknowledgments are in agreement with the experimental facts, and that they have many important applications in physics and chemistry.

8. The eighth part of the paper is devoted to a discussion of the appendix. It is shown that the appendix is in agreement with the experimental facts, and that it has many important applications in physics and chemistry.

9. The ninth part of the paper is devoted to a discussion of the index. It is shown that the index is in agreement with the experimental facts, and that it has many important applications in physics and chemistry.

10. The tenth part of the paper is devoted to a discussion of the bibliography. It is shown that the bibliography is in agreement with the experimental facts, and that it has many important applications in physics and chemistry.

Color descriptions - Inverto/ S.L.P. 8/26/10

SMR1332 - Pseudoeurycea sp.

Snout to interorbital region medium brown, rest of dorsal surface of head darker chocolate brown. Dorsum dark chocolate brown, w/ several pale brown lichen-like patches on dorsolateral region. Dorsal surface of tail reddish brown, with more pale brown blotches and several very dark brown blotches. Anterior half of limbs reddish brown, outer half darker brown. Feet dark grey-brown w/ tiny white specks throughout. Sides of body + head ~~all~~ medium grey-brown w/ many pale grey specks, some on lower half of lateral surface of tail. All ventral surfaces slate grey background w/ pale grey mottling, some brown mottling on sacral region + tail. 2 black lines (indistinct) from insertion of forelimbs to just anterior of ~~the~~ insertion of hind limbs. Underside of feet grey-chris brown.

SMR1346 - Chiropterotriton sp. "Pinguica"

Dorsal surface dark brown, uniform, slightly paler on anterior half of head. Dorsal surface of limbs golden-brown (medium). Upper half of lateral surface similar to dorsum, fading gradually into ventral coloration. Lateral region very pale grey w/ tiny cream flecks. Ventral surface of body pale slate grey, same on tail but gradually darkening towards tip. Underside of limbs yellowish grey (including feet). Toe tips red-chris coppery.

Handwritten text in Arabic script, likely a religious or philosophical treatise. The text is written in a cursive style and spans approximately 15 lines. It begins with a small heading or title at the top left, followed by several paragraphs of text. The script is dense and fills most of the page area.

Handwritten text in Arabic script, continuing the treatise. This section also spans approximately 15 lines and is written in the same cursive style as the first section. It appears to be a continuation of the same work, with similar thematic elements.

Lozano, Sean

2010

Journal

San Joaquin area, Querétaro, Mexico

Aug. 23 Spent part of the morning taking photos + drying out equipment. Drove to San Joaquin and went to see Rancho archaeological site. Looked around under rocks + logs at the site, which was surrounded by nice oak forest. Found several Plestiodon and a small colubrid snake that looked like a Storeria. Searched in the woods below the village of Agua de Nenado for ~1 hr; found 3 Xenopus latifrontalis under rocks + logs. Drove on the road out from San Joaquin to the SE, then turned off on dirt road to San Juan Enramadas. Searched for ~30 min along road + in pretty good oak forest. Sean found a Xenopus latifrontalis under a rock, and I got a big Pseudoeurycea cephalica under a stone next to a rock wall. Drove back to DF, arriving late.

El Askeadero, Carrizal de Bravos, Guerrero, Mexico

Sept. 25 Left DF yesterday at 15:00 with Tom Devitt + Itzye Cavides, drove to Chilpancingo. Went ~14 Km S of Mazatlán on the free highway to Acapulco, turned off on road to Acahiztlan. Searched on limestone roadcuts for ~1.5 hr; found lots of Phyllodactylus, and a big Sceloporus. Tom got a Mabuya. Went towards town + stopped along a roadside ditch w/ lots of grass + weeds. I got a Pseudoeurycea (heard lots) + 2 Anolis, Tom got a Leptodactylus. Started to rain moderately hard; looked on road cuts briefly, then drove back to CA95. Found a Syrrophus, a Pachymedusa, and 2 other frogs we couldn't catch (1 probably a Smilisca) before returning to Chilpancingo. Searched ~20:00-24:00. Today, drove to Carrizal de Bravos and talked to people who let us collect and stay at Askeadero, the type locality for several species. Started searching

[illegible]

Nito, Sean
2010

Journal

El Asobadero, Carrizal de Bravos, Guerrero, Mexico (cont.)

Sept. 25

... around 13:00, focusing on logs. Conditions were very good for salamanders (lots of rain lately), and Tom + Itzue both found a Ithous mittemi (1 in log + 1 under rock). Basiliscus + Sceloporus were abundant. After lunch + talking to someone from the committee in charge of the site (from Carrizal de Bravos), we searched from 15:00-17:00. Tom + I each got a Ithous in logs, and Tom + Itzue found a small Craugastor (I also saw one but it escaped). Took photos in afternoon + waited for some men from Carrizal de Bravos, who came to show us a cave w/ a very steep entrance and a river flowing through it. After dinner (around 20:45), we walked out to the road and looked on the roadside for ~30 min; Tom found a Plectrohyla distincta in a hole w/ dripping water. Went back to cave and searched for ~30 min w/ no luck. Then went to another cave I found this afternoon, on the old road/path downhill to E from cabins. Cave turned out to be pretty big + had a stream flowing through it - saw no herps inside. Returned to cabins around 22:50; Tom stopped searching. Itzue + I walked uphill along the road from the cabins and searched along the road bank until about 23:20, with no success. Slept in one of the cabins. Day was fairly warm in the morning, cloudy w/ no rain in the afternoon, and clear at night.

Cerro Teatepec, E of Puerto del Gallo, Guerrero, Mexico

Sept. 26

After getting supplies, drove from Carrizal de Bravos to Puerto del Gallo. Road was somewhat muddy on first half, got better after passing El Jilguero. The first part was mostly through pine forest, but looked like it could have salamanders (none known). As we started

Wito, Sean
2010

Journal

Cerro Jestepec, E of Puerto del Gallo, Guerrero, Mexico (cont.)

Sept. 26

... to climb up toward Cerro Jestepec, the forest transitioned to a very wet pine-oak forest with tons of moss and lots of fast-flowing clear streams. We stopped for ~10 min to search under logs but found nothing. On the crest of the road 5 of Cerro Jestepec, the pine trees became sparse, with lots of exposed mossy rock, tons of fast streams and seeps, and high elevation shrubby vegetation. Drove down slope to Puerto del Gallo, arriving around 18:00. Had left around 12:15, so trip took about 5 hr, not including stops. Stayed at police station. After dinner, drove back to high point on road 5 of Cerro Jestepec. Searched from 21:40 - 22:30, found nothing. Had rained lightly on high part of mountain during afternoon w/ lots of fog, so everything was wet, but cleared up by the time we arrived. Most of the mossy rock slopes along road were dripping wet + looked very good for salamanders, but we saw nothing. Searched along road bank a bit W of this point for ~10 min, then drove down to a point where a road branched off uphill, 8.4 km E (by rd) from Puerto del Gallo. Searched from 23:00 - 23:30; Tom + Citzye looked along a stream, while I searched along the roadbank. I found a dark brown-black juvenile Pseudoeurycea on the mossy roadbank, ~1.5 m off the ground (road). It had a lot of brown spots on the dorsum and no markings on the venter, which matches the description of P. ahuetzoth. Searched for a good stream ~2800 m elev. for Plectrohyla, but found none, and returned to Puerto del Gallo to spend the night.

9/27/10
appears similar to P. tlacuich
found today

Wito, Sean
2010

Journal

Cerro Tzestepac, E of Puerto del Halls, Amador, Mexico

Sept. 27

Spent morning prepping specimens. After lunch, drove up towards Cerro Tzestepac. Stopped on a slope 8.0 km by rd from Puerto del Halls + searched in logs from 14:40-15:10. I found 2 Thorius grandis under bark of a pine log; forest was open w/ pine trees and lots of moss, and had been burned in the past. Continued uphill to a turnoff 8.8 km from town, at the point where I had found the Pseudoeurycea last night and drove uphill for 0.7 km to a flat area with lots of big fir trees and tons of logs. We searched for ~20 min in logs and found 25 Thorius grandis. Two logs had about 9 Thorius each and they seemed extremely abundant. There had been a lot of logging in this area. It was very cold and had started raining moderately. Drove to rest of road on S side of Cerro Tzestepac and started walking uphill through open pine forest w/ bunchgrass at 16:00, searching in logs; found 2 more T. grandis just above road. Went up through open, wet, rocky area and then followed a road to some fir forest that corresponded roughly to the type locality of Pseudoeurycea Tzestepac. Searched here and in nearby pine forest (17.46302°N, 100.14258°W [$\pm 9m$], 3355m elev) but found nothing. GPS elevation readings seemed low compared to yesterday. Continued to search in logs on way down, stopping at 18:15. Drove ~10 more km E to the approximate type locality of Plectrohyla cruzes, where we searched along several small but fast streams, to no avail. Habitat was pine-oak-fir forest and was very wet. Rain had stopped when we left rest of road near Cerro Tzestepac. I searched along road banks and found a big adult Pseudoeurycea thalassidroma at a spot up the road, 18.8 km E of Puerto del Halls. It was emerging from a crack in a solid rock bank ~2m above the road. GPS here said 3000m but changed to <3000m

into, Sean
2010

Journal

Cerro Tesepe, E of Puerto del Halls, Guerrero, Mexico (cont).

Sept. 27 ... as we drive uphill; I think 2950m is more accurate for this site based on the map. Found 2 more adult P. thalassidromus on the bank nearby; one climbing up grass near top of bank & other one on dirt ~1.5m above road. In all, searched at night from ~20:15-22:45. Drove back to crest of road on Cerro Tesepe and searched roadbank for 15 min, but saw nothing. Spent night at police station in Puerto del Halls.

Puerto del Halls to Atoyac, Guerrero, Mexico

Sept. 28 Spent morning prepping specimens; left Puerto del Halls at 13:30. Drove to a cafetal 13.7Km (by rd) NE of El Paraíso and searched in lots of good logs from 15:30-17:30. Found many small Crangon but nothing else; rained for first half hour of searching. Drove to Atoyac and got a room at the Hotel Alameda, then went back out after dinner.

Found a Triton with a Geophila sticking out of its stomach and a Leptodeira (both DOR) at the trash dump on the edge of town, along with a Bufo. Stopped 19Km from entrance to Atoyac and searched for 30 min; found an Anolis and a green and brown hylid (), both on vegetation along road. Drove back to a point 15.1Km from Atoyac and searched for ~40 min. I found a Lamprolaima triangulum on the roadbank, a Crangon (Hylactophryne) angusti in a cavity on the bank, and 2 Eleutherodactylus (Syrphophis) on leaves ~30cm off the ground. Itzye got a Hyalinobatrachium fleischmanni along a stream. Caught a Smilisca baudinii ~2m off the ground in a tree on the way back, 11.1Km from town.

Left for the mountains at 10 AM. The weather was
clear and the road was good. We went up the
mountain side and saw many beautiful views of the
valley below. The mountains were very high and
the air was very fresh. We saw many small
streams and some large lakes. The people who
live here are very kind and friendly. They
showed us many interesting things and we
enjoyed our trip very much.

11/15

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into, Sean
2010

Journal

Mazatlan area, Guerrero, Mexico

Sept. 29

We woke up somewhat late after a long night and I decided we didn't have time to go search for Bolitoglossa hermosa. Instead, drove on free highway from Acapulco to Chilpancingo. Stopped at a private property called Aguade Olivos, 17 Km S of Mazatlan. It is the type locality of a species of Seymouria, and a very low elevation site for P. helmi. After seeing the habitat, fairly dry, open pine forest with nice rock walls, it seems more likely to me that the salamander here is either Pseudoeurycea maxima or something like it. We searched in piles of roof tiles next to a building and I found 2 Seymouria; we also saw several small Craugastor. One Seymouria escaped. We searched for ~40 min total. We had lunch in Mazatlan and then took a small road W out of town, under the toll road and up into the mountains. We quickly got into an area with pine trees, saw palms and agave, and searched at the type locality of another Seymouria, 6.6 Km by road from Mazatlan. We quickly found 2, 1 under a rock and one amongst fallen agave leaves, and Tom got a Craugastor angustis juvenile. We continued uphill to Tejocote and then on to the end of the road, 13.2 Km from Mazatlan. Found a Conopsis under a board along road, then a Scaphiopus, 1 Craugastor, + 1 Thamnophis as we walked from the car through a field with lots of logs toward a waterfall. The waterfall was rather large and was in a broadleaf and pine forest. We arrived at nightfall + searched from 19:45 - 20:45. Tom found 2 Plectrohyla saxatilis about 1.5-2 m off ground in vegetation above a small stream that flowed into the main stream. Both frogs were fairly small. These are the first we have seen and the first collected in years, as far as I know. I got

also found a strange
red snake on road

Kovito, Sean
2010

Journal

Mazatlán area, Guerrero, Mexico (cont)

Sept. 29

... an Anolis on a leaf. We left and drove down, realizing we had a flat tire right before we reached the highway. Changed it, at a late dinner + stayed at the Hotel Marina Real in Chilpancingo.

Sierra de Alvarez, San Luis Potosí, Mexico

Oct. 16

Yesterday, left DF around 12:30 and drove to San Luis de la Paz, Guanajuato, then on road to Xichu. Starting in desert-like conditions, the road climbs steadily and the vegetation changes to fairly extensive oak forest. I searched both in road banks and some excellent logs near the settlement of Charea Azul, 37 Km (by rd) from Cañada de Moreno (21.31849°N , $100.11594^{\circ}\text{W}$ [$\pm 10\text{m}$], 2294m elev) from 18:00 - 19:15, then on a nice roadbank along a dirt road from 19:45 - 21:00 but saw nothing. The habitat here looks very much like the oak forest at San Joaquin, Querétaro. Drove to Dolores Hidalgo and stayed at the Casa Ma hotel near the plaza - nice + cheap. Today, shopped for ceramic tiles after breakfast, then drove to the Sierra de Alvarez, San Luis Potosí. After asking around in the village of San Francisco, I drove on to the village of Km 68 and paid 2 boys MN 150 to take me to 2 caves above town. Both were in oak forest with fairly big trees, agaves, and cacti. The first cave was a large passageway that went back perhaps 50-60m, with several big chambers. It was somewhat dry but had seepy areas, bats, and abundant invertebrate life; seemed good for salamanders (GPS: 22.01528°N , $100.60614^{\circ}\text{W}$ [$\pm 6\text{m}$], 2458m elev.). The second cave was little more than a big crack, didn't go back very far, and had a thriving fly population (GPS: 22.01828°N , $100.60516^{\circ}\text{W}$ [$\pm 8\text{m}$], 2355m elev.).

into, Sean
2010

Journal

Sierra de Alvarado, San Luis Potosí, Mexico (cont)
Oct. 16 I drove to Valle de Las Fantomas and got a boy (Hector) to take me to a cave we failed to find on our last trip (Cueva del Modrón: 22.07183°N , $100.61466^{\circ}\text{W}$ [$\pm 10\text{m}$], 2297m elev). The cave entrance is a big hole in a sunken area surrounded by oak trees and pasture. We quickly found 3 Chiropterotriton multidentatus crawling on the cave walls very close to the entrance. The cave goes back ~15m and then has several passages that drop sharply down and appear quite deep; I did not explore further and I think caving equipment would be necessary. Although this was the wettest cave I entered today, the areas where the salamanders were found were not actually wet. These animals (particularly the 2 smaller ones) remind me of the Chirops we collected E of Ciudad del Maíz. I spent the night at the Hotel Napolis (expensive, just OK) in San Luis Potosí.

El Chico National Park, Hidalgo, Mexico
Oct. 16 After a leisurely morning in San Luis Potosí, I drove to Pachuca and up to El Chico National Park. I stopped 4 km S (by rd) of Mineral del Chico & searched in rotten logs and rotting woodpiles in a mossy fir forest from 16:30-18:00. Got a small Chiropterotriton dimidiatus from inside a rotten log. Conditions were fairly moist and forest seemed in good shape. At night, searched along mossy and rocky roadbank from 19:30-20:40 and got 3 Pseudoeurycea cephalica, all of which were out on the mossy bank. The day was clear and cool and it got fairly cold at night. Drove home to DF.

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Karto, Sean
2010

Journal

Sierra Mazateca, Oaxaca, Mexico

Oct. 23 Dana Lee, a former Berkeley student in my IB104 class, flew to DF on Oct. 21. Yesterday, we left and drove to Teotitlán del Camino, then turned off on the road to Huantla. We arrived at Puerto Soledad after dark and searched along roadbanks for ~30 min. It was pretty dry, and I found only a Grangator mexicanus crossing the road. We drove to Huantla to spend the night. This morning, we spent a while getting permission from the Comisariado de Bienes Comunales in San Jerónimo Tecóatl. We then drove to Plan de Guadalupe and turned south for ~1 km. We started searching under small rocks along the road, but the roadside had recently been scraped clean. We looked in the walls and under many loose rocks, as well as in a large pile of very good rocks along the road. We then climbed up the hill W of the road and searched in logs in very disturbed oak forest for ~30 min. We spent about 2 hr total searching here, then drove to Puerto Soledad and turned S on a dirt road. We stopped 1.6 km from the highway and opened ~35 branchiids (there were tons) in what may have been secondary oak forest. We got 1 adult Pseudoeurycea ruficauda, which looks very much like the pseud that I got in Aug. 2008 near Peña Verde, S.M. Papalo - I now think they are the same. Finally, we drove to the nearby microwave towers and searched in logs for ~30 min but found nothing. The oak forest here was rather dry. We drove to Teotitlán, where the road to Oaxaca was blocked by protestors. We spent the night in Teotitlán.

Larito, Sean
2010

Journal

Oct. 25

San Bernardo, Mpio. Santiago Comaltepec, Sierra de Juárez, Oaxaca, Mexico
Yesterday, we drove to Oaxaca to take care of a hotel reservation for the Día de los Muertos, then drove to Santiago Comaltepec. Got a DOR loan on MX135 in arid habitat. Talked w/ Comisariado de Bienes Comunales in Comaltepec + San Pedro Yulox - no problem w/ permission. Slept in Yulox. Today, we drove to San Bernardo, an ecotourism trail where we got a Thorius arboreus in March of this year. Started searching around 10:30; Dana found a juvenile Atraspoides under a log. We searched in bromeliads (which were abundant) + some logs until 15:00. We found 7 Chiropterosticta "pluvialis" and a Plectrohyla (arborescens?) in bromeliads, and a Craugastor mexicanus in leaf litter. While looking for a juvenile Chiropterosticta that escaped in the leaf litter, I pulled up some matted leaves and found an adult Pseudoeurycea cf. werleri in the dirt. It looks a lot like a P. ophalea to me (dark grey/black, robust, white spots on tail) although the feet are different. It seemed very lethargic when I found it. We walked all the way down to 1580m. Around 1500m, the forest started to seem drier, and large, spiny bromeliads (Aechmea) appeared. After lunch and a few photos of the Pseud, we searched on the other side of the road in a nice forest w/ many bromeliads from 16:30 - 17:45. Found 2 adult + 9 juvenile C. "pluvialis", kept only the 2 adults. Ate in La Esperanza and talked w/ the agente, then went back to San Bernardo and looked at a wet stretch of road bank for ~15 min. Got 2 Craugastor of the albedi group, and saw a tiny C. mexicanus. Spent the night in Yulox after prepping specimens. The day was warm and sunny, and the night was clear.

Color in life - Pseudoeurycea cf. werleri 10/26/10

Dorsum nearly uniform dark greyish brown, also top of head. Very faint, indistinct interorbital band. Caudal dorsal surface same color as back, with several medium grey lichen-like blotches extending from lateral surfaces. Paired, faint brown elongated blotches extending ~2 fold back from insertion of hind limbs. Dorsal surface of limbs same as back. Feet light brown with white flecks covering interior $\frac{1}{2}$ of foot (digits 1-3). Upper labial surface + orbit w/ scattered white flecks. Lateral surfaces of body brown (same as dorsum) above midline, covered w/ pale brownish-grey flecks below midline; this coloration extends from mouth to insertion of hind limbs. Lower labial surfaces slate grey w/ scattered white flecks. Lateral surfaces of tail brown (like dorsum) above midline slate grey below, with multiple large brownish grey lichen-like blotches, and grey flecks on lower half. Reddish brown area at posterior part of insertion of hind limbs (just behind legs). Rostrum light grey w/ pale grey flecks. Ventral surface slate grey w/ scattered pale grey flecks, becoming less numerous on tail and more numerous on gular region to insertion of forelimbs. Underside of legs same color, underside of feet solid grey. Toe tips reddish-grey (pale).

auto, Sean
2010

Journal

Along MX175, Sierra de Juárez, Oaxaca, Mexico

Oct. 26

After dealing with a few specimens in morning, drove to turnoff to San Andrés Yalox. Parked ~200m down road and worked on other side of road from where we worked last march. Forest here is slightly disturbed but has lots of big trees + many good bromeliads. We opened 101 bromeliads from 11:30 - 15:20. Chirostrobatus "pluvialis" were abundant; we found 5 adults and 13 juveniles. Got 5 P. saltator, one of which has a color pattern like the P. juarezi that I collected near the top of Cerro Pelón last December. We got a very big, brown Pseudoeurycea with a long tail; it looks like P. saltator in its general form + foot shape, but differs in coloration (brown vs. yellow band), size (much bigger than any P. juarezi I've seen) and tail length. In the 101st bromeliad, we found a spectacular adult Enomophya. We then drove to La Esperanza, after lunch, and opened 14 bromeliads in the forest above town from 16:50 - 17:25; found 1 Plectrohyla (arborescens?). The habitat in this area seems mostly secondary (few big trees, bushy) and I wonder if it's worth looking for Cryptotriton here. The bromeliads seemed excellent, however. We drove on to the small roadside chapel where we collected Bolitoglossa in December 2009, 10.3 Km S (by rd) from the center of Valle Nacional. We got 4 Bolitoglossa sp. "Nista Hermosa", 1 B. rufescens, and a Rhadinea in red bananas; searched under rocks but found nothing. The undescribed Bolitoglossa are more robust, relatively uniform brown in color, and easily distinguished from B. rufescens. Got gas + had dinner in Valle Nacional, then spent night prepping specimens. Day was fairly hot and clear, night was clear with no clouds.

Karto, Sean

2010

Color description - SMR1401 Bolitoglossa sp. "Niota Hermosa"

Dorsum nearly uniform orangish-brown, w/ scattered darker brown specks. Top of head slightly darker brown, ending in a triangle behind eyes. Iris coppery. Nostrum pale brown. Labial surfaces + side of head to insertion of forelimb pale brown w/ tiny white spots.

Top of tail same as dorsum. Top of legs same as sides of body (see below). Sides of body + tail pale brown with tiny white flecks scattered throughout. Anal surface pale w/ orange + brown mottling. Ventral surface pale brown w/ fine white mottling. Ventral surface of tail pale brown w/ tiny white + darker brown specks throughout. Underside of limbs same as venter. Underside of feet pale brown.

Rito, Sean
2010

Journal

Road from MX175 to San Claudio Yolo, Sierra de Juárez, Oaxaca, Mexico
Oct. 27 We spent the morning photographing + prepping. Took MX175 to "La Habra", then turned off to San Claudio Yolo. We searched in nice broadleaf cloud forest ~400m from MX175 from 12:45-16:30 and opened 102 bromeliads. We got 6 Pseudoeurycea saltator, 14 Chiropterotriton "pluvialis" (kept 3), 1 adult Thorius arboreus, and 3 tiny salamanders with a more golden dorsal color that are either T. arboreus or Cryptotriton odoles. All were found in bromeliads. After eating + taking pictures, we drove on towards San Claudio, stopping at a point 7.8 km (by rd) from MX175. We searched in logs in a broadleaf forest (not cloud forest) with many ferns and large-leaved understory plants. After ~25 min of searching, I got a Thorius under a small rotten log. Based on the elevation, I presume it is T. smithi - will have to check the teeth to see. It had a long tail and was very dark (almost black) in dorsal coloration. Drove back to San Pedro Yolo and spent evening prepping specimens. Saw a Basileiscus on the road driving back the previous 2 nights, but not tonight. The day was warm and sunny, and the night was clear.

Llano de las Flores, Sierra de Juárez, Oaxaca, Mexico
Oct. 28 After leaving San Pedro Yolo in the morning, we drove to Llano de las Flores and searched in logs for ~30 min in a mixed pine-oak forest that was very disturbed. Got 1 Thorius in a log, and a Sceloporus + an Ambystoma under logs. After we left, it rained heavily in the afternoon across the Valle de Oaxaca. Road was blocked by protests, so we went to see Mitha + spent the night in Miahuatlán.

The first part of the book is devoted to a general
discussion of the principles of the theory of
functions of a complex variable. It begins with a
chapter on the complex plane, and then proceeds to
the theory of analytic functions. The author
discusses the properties of analytic functions, the
Cauchy-Riemann conditions, and the Cauchy
integral. He also discusses the theory of
conformal mappings, and the theory of
Riemann surfaces. The second part of the book
is devoted to the theory of the Riemann zeta
function, and the theory of the distribution of
prime numbers. It begins with a chapter on the
Riemann zeta function, and then proceeds to the
theory of the distribution of prime numbers. The
author discusses the properties of the Riemann
zeta function, and the theory of the distribution
of prime numbers. He also discusses the
Riemann hypothesis, and the theory of the
distribution of prime numbers. The third part of
the book is devoted to the theory of the
distribution of prime numbers, and the theory of
the Riemann zeta function. It begins with a
chapter on the distribution of prime numbers, and
then proceeds to the theory of the Riemann
zeta function. The author discusses the
properties of the Riemann zeta function, and
the theory of the distribution of prime numbers.
He also discusses the Riemann hypothesis, and
the theory of the distribution of prime numbers.

The fourth part of the book is devoted to the
theory of the distribution of prime numbers, and
the theory of the Riemann zeta function. It
begins with a chapter on the distribution of
prime numbers, and then proceeds to the theory
of the Riemann zeta function. The author
discusses the properties of the Riemann zeta
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prime numbers. He also discusses the Riemann
hypothesis, and the theory of the distribution of
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to the theory of the Riemann zeta function. The
author discusses the properties of the Riemann
zeta function, and the theory of the distribution
of prime numbers. He also discusses the
Riemann hypothesis, and the theory of the
distribution of prime numbers.

into, Sean

2010

Journal

Nov. 18

Cuetzalan, Puebla, Mexico

Drove to Cuetzalan from OF, arriving around 20:00. Very foggy and rainy, made drive hard. Found a small hylid (*E. mistypanum*?) on a wall in front of the entrance to the cemetery. Stayed at the Posada Jacqueline - cheap, no frills. Today, went to see ruins at Yohualichán - very nice. Looked in a nearby cafetal from 10:55-11:30, but it had almost no logs or leaf litter and I found nothing. A little further up the road to Cuetzalan, I searched in an area of secondary forest with some coffee + bananas from 11:40-12:30. Found a single adult *Chiropterostigma* under the leaf of a green banana tree. It almost looked like a *B. rufescens* - have never seen a *Chiro* in this kind of habitat before. It has a somewhat yellow dorsal color and small front feet; back feet look a little unusual as well. David Wake thinks it's not a *Chiro* based on the specimen he examined - we shall see. Drove back to Cuetzalan after a fruitless 30 min search of a plot of secondary forest w/ bananas that a local man took me to. Continued on to higher elevation areas and searched for 30-45 min in a highly disturbed area that used to be oak cloud forest; found a *Pseudoeurycea* (*mexicanus*?). I spent most of the day searching for habitat rather than actually searching; it was fairly cold all day; foggy in the morning, turning into light rain around 12:00. I drove to Perote to spend the night at the Hotel Maria y José - really nice and a bargain at MX 320.

into, Sean
2010

Journal

Nov. 20

Cofre de Perote, Cruz Blanca and La Joya, Veracruz, Mexico

I started the day by driving to the summit of Cofre de Perote. Stopped to look in a mossy fir forest above El Conejo for ~20 min under rocks and in the roadbank. Looked good but found nothing. Drove past Cruz Blanca on road to Las Nigas and stopped in a fairly large remnant patch of pine forest, which I think is where many MVZ specimens were collected in the past. The forest is quite disturbed and has a crowded understory of shrubs and vines, and was difficult to work in. I searched from 15:00-15:45 in the few logs I could find. I got a Thorius munificus under a small log and 5 more under the bark of the same large log. One of them is smaller and could conceivably be a T. minydenus, which also occurs here. I also got a Pseudoeurycea cephalica under a piece of cement on the side of the road nearby. I then went to La Joya and opened 14 small to medium-sized bromeliads in an area of scattered trees near the town dump ~0.8 Km N of town. I got 4 Chiropterotriton (larvae, presumably); one is a striking orange-red, while the others are brown and look more like other Chirops I've seen. I searched in bromeliads from 16:30-17:40, with a 25 minute break for photos. Searched along a good rock wall in the area for ~15 min just after dark but found nothing. It was sunny all day but got cloudy in the late afternoon and somewhat misty at dusk. I stayed in the same hotel in Perote as last night.

Nov. 21

Las Lajas Microwave Station, Veracruz, Mexico

Drove up to Las Lajas, searched along road bank + in logs in pine forest. Got 5 P. leprosa - 1 under rock, 1 under small log, + 3 inside a large rotten log. Searched 11:15-12:45. Took some photos, then drove back to D.F. Habitat seemed OK, although disturbed by logging, grazing + agriculture.



Sean M. Rovito

2010

Photo Log #2443-6492

ovito, Sean
2010

Photo log

| Date | Photo # | Description |
|---------|---------------------------------------|--|
| 1/14/10 | ⁴ 2443 - ⁴ 2445 | gopher, trail to Cerro Macalajau |
| | ⁴ 2446 - 2452 | CRVA2201, <u>B. lincolni</u> |
| | 2453 - 2455 | Forest near Cerro Macalajau |
| 1/15/10 | 2456 - 2459 | Reserva San Pablo El Baldillo, above Laj Chime |
| | 2460 - 2462 | howler monkeys, " |
| 1/16/10 | 2464 - 2465 | ruined church above Desengaño |
| | 2466 - 2474 | Forest above Desengaño |
| | 2475 - 2477 | us in mud, Desengaño |
| 1/17/10 | 2478 - 2479 | Doña Maria's house, Laj Chime |
| | 2480 | Laj Chime community forest |
| | 2481 - 2496 | SMR1002, <u>B. cuchumatana</u> |
| | 2497 - 2513 | SMR1000, <u>B. hartwegi</u> |
| | 2514 - 2517 | SMR1001, <u>Craugastor</u> |
| | 2518 - 2528 | CRVA2237, <u>Plectrohyla</u> , Laj Chime |
| 1/18/10 | 2533 - 2547 | SMR990, <u>Plectrohyla</u> |
| | 2548 - 2559 | CRVA2230, <u>Sibon</u> |
| | 2561 - 2574 | CRVA2219, <u>Plectrohyla</u> |
| 1/22/10 | 2576 - 2582 | SMR ¹⁰¹⁷ ~~1018~~ , <u>Plectrohyla</u> |
| | 2583 - 2597 | CRVA2253, <u>Plectrohyla</u> |
| 1/24/10 | 2598 - 2600 | view of Yulhuitz Grande |
| 1/25/10 | 2601 - 2607 | SMR1045, <u>Bufo campbelli</u> |
| | 2608 - 2620 | SMR1036, <u>Plectrohyla ixil</u> |
| | 2621 - 2631 | SMR1043, <u>hyliid</u> |
| | 2633 - 35 | CRVA2278, <u>Sphenomorphus cherrei</u> |
| | 2636 - 2638 | Laguna Maxbal |
| | 2639 - 2640 | San José Maxbal |

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| أبو بكر بن أحمد | 1003 |
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vito, Sean

2010

Photo log

| <u>Date</u> | <u>Photo #</u> | <u>Description</u> |
|-------------|----------------|---|
| 1/26/10 | 2641-2715 | SMR1051, <u>Nyctanolis</u> <u>pernix</u> |
| | 2720-2730 | CRVA2293, <u>Exerodonta</u> <u>perkinsi</u> |
| | 2731-2742 | CRVA2285, <u>Bradytriton</u> <u>silus</u> |
| | 2744-2753 | SMR1048, <u>Craugastor</u> |
| | 2755-2774 | walking stick, 1.8 km S of San Jose Maxbal |
| 1/27/10 | 2775-2779 | forest 1.8 km S of San Jose Maxbal |
| | 2781-2787 | view of Lago Atitlán from above Panajachel |

ovito, Sean
2010

Photo Log

| Date | Photo # | Description |
|---------|---------------------------|--|
| 3/14/10 | 2873-788 | Popocatepetl and Itzaccihuatl from hwy to Puebls |
| 3/16/10 | 2879-83 | vegetation on road from Cuicatlan to Oaxaca, at Mirador |
| 3/17/10 | 2884-86 | pine forest, RMO Corral de Piedra, Cerro San Felipe |
| 3/18/10 | 2889-2952 | <u>Thorius arboreus</u> |
| | 2956-2965 | <u>Xenosaurus</u> |
| | 2966-2971 | hylid, La Galera |
| 4/24/10 | 3042-3043 | Asoleadero, near Carrizal de Bravos, Guerrero |
| | 3047-3054 | SMR1059, <u>Craugastor</u> |
| | 3055-3078 | SMR1060, <u>Thorius amiltemi</u> |
| 6/11/10 | 3356-3361 | SMR1069, <u>Rana warszewitschii</u> |
| | 3362-3373 | SMR1079, <u>Anolis capito</u> |
| | 3374-3378 | SMR1073, <u>Craugastor fitzingeri</u> |
| | 3379-3385 | SMR1075, <u>Craugastor crassidigitus</u> |
| | 3392-3410 | SMR1074, <u>Pristimantis?</u> |
| | 3411-3431 | SMR1076, <u>Diasporus hylaeformis</u> |
| | 3432-3455 | SMR1072, <u>Diasporus</u> ~~<u>Eleutherodactylus</u>~~ <u>hylaeformis</u> |
| | 3456-3471, 96-04 | SMR1071, <u>Espadarana prosoblepon</u> |
| | 3472-3495 | SMR1087, <u>Sachatamia illex</u> |
| | ~~3500~~ 3505-3511 | SMR1082, <u>Craugastor crassidigitus</u> |
| 6/12/10 | 3512-3519 | <u>A. nymifer</u> #1, on trail |
| | 3520-3539 | " " #2, on trail |
| | 3543-3552 | SMR1090, <u>Ninia maculata</u> |
| | 3553-3571 | SMR1083, <u>Sibon annulatus</u> |
| | 3572-3582 | SMR1095, <u>Duellmanohyla rufiocularis</u> |
| | 3583-3593 | SMR1080, ~~<u>Hyla</u>~~ <u>pseudopuma</u>
<u>Isthmohyla</u> |

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Photo Log

| Date | Photo # | Description |
|---------|----------------------------------|--|
| 6/12/10 | 3594-3609 | SMR1093, ~~Craugastor~~ ^{Pristimantodes} <u>cruentus</u> |
| 6/13/10 | 3610-3617, ^{3629,} 3630 | SMR1100, <u>Smitisca phaeota</u> |
| | 3618-3628 | SMR1092, ^{Isthmophyla} ~~Isthmophyla~~ <u>pseudopuma</u> |
| | 3631-3637 | SMR1109, <u>Rhadinea decorata</u> |
| | 3638-3699 | SMR1102, <u>Noblitriton gamezi</u> |
| | 3704-3710 | SMR1103, <u>Sphenomorphus cherrei</u> |
| 6/14/10 | 3711-3722 | SMR1107, <u>Bufo caniferus</u> |
| | 3723-3728 | SMR1105, <u>Anolis oxylophus</u> |
| | 3729-3736 | SMR1098, <u>Anolis biporcatus</u> |
| | 3737-3747 | SMR1097, <u>Anolis humilis</u> |
| | 3748-3753 | SMR1077, <u>Anolis limifrons</u> |
| | 3754-3759 | SMR1078, " " |
| 6/15/10 | 3765-3770 | SMR1114, <u>Lepidoblepharis xanthostigma</u> |
| | 3771-3777 | SMR1115, <u>Ptychocheilus plicatus</u> |
| | 3779-3815 | SMR1116, <u>Oedipina</u> |
| 6/16/10 | 3816-3819 | SMR1125, <u>Diplazus</u> ~~bilobatus~~ |
| 6/16/10 | 3825 | <u>Diasporus hylaeformis</u> , Finca Ocotea, Zarcero |
| 6/17/10 | 3830-3838 | SMR1126, <u>Craugastor podiciferus</u> |
| | 3839-3848 | SMR1129, <u>Anolis tropidolepis</u> |
| 7/8/10 | 3985-3994 | SMR1167, <u>Bolitoglossa platydactyla</u> |
| | 3995-3999 | SMR1170, <u>Eleutherodactylus lepus</u> |
| | 4000-4003 | SMR1164, <u>Bufo valliceps</u> |
| | 4004-4009 | SMR1166, <u>Ninia diademata</u> |
| | 4010, 4012 | SMR1165, <u>Ninia sebae</u> |
| | 4013 | SMR1162, <u>Geophis semidoliatus</u> |

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Photo log

| <u>Date</u> | <u>Photo #</u> | <u>Description</u> |
|-------------|--------------------|--|
| 7/9/10 | 4015-4018 | Isthmus of Tehuantepec, road to Santa Maria Chimalapa |
| 7/11/10 | 4019-4055 | SMR1181, <u>Bolitoglossa flaviventris</u> |
| | 4056-4070 | <u>Bolitoglossa occidentalis</u> |
| | 4071-4074 | cafetal where <u>B. flaviventris</u> was found |
| | 4075-4076 | SMR1173, <u>Bufo</u> |
| | 4078-4081 | SMR1178, <u>Craugastor</u> |
| | 4083-4088 | SMR1172, <u>Sphenomorphus assatus</u> |
| | 4089-4094 | SMR1179, <u>Rana</u> |
| | 4102-4110 | SMR1175, <u>Craugastor rhodophis</u> |
| | 4112-4133 | SMR1176 or 1177, <u>Eleutherodactylus rubrimaculatus</u> |
| 7/14/10 | 4134-4136 | Cerro Bail from road to Rodolfo Figueroa |
| | 4137, 4161-4166 | <u>Ixalotriton</u> cave |
| | 4138-4159 | SMR1189, <u>Ixalotriton</u> cf <u>niger</u> |
| 7/15/10 | 4169-4173 | SMR1195, <u>Bolitoglossa occidentalis</u> |
| | 4175-4182 | SMR1194, <u>Craugastor</u> |
| | 4184-4187 | SMR1188, ~~Leptodeira~~ <u>Leptodeira</u> |
| | 4189-4209, 4221-29 | SMR1189, <u>I.</u> cf <u>niger</u> |
| | 4213-4220, 4251-56 | SMR1190, " " |
| 8/1/10 | 4484-86 | San Luis Potosí |
| | 4487-4488 | near Valle de Los Fantasmas, Sierra de Alvarez, SLP |
| 8/2/10 | 4489-4492 | view of El Cielo from near Gomez Farías |
| | 4493-4501 | <u>Xenosaurus platyceps</u> , on trail to Alta Cima |
| | 4502-4534 | Cueva del Salt and <u>P. scandens</u> from cave |
| | 4537-4544 | 1st <u>P. "cephalica"</u> on road from Alta Cima to San José |
| | 4542-4547 | <u>P. cephalica</u> + <u>P. scandens</u> , " " |

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Photo Log

| <u>Date</u> | <u>Photo #</u> | <u>Description</u> |
|-------------|----------------|--|
| 8/2/10 | 4548-4552 | site where 1st <u>P. cephalica</u> found in cloud forest |
| | 4554-4564 | <u>P. "cephalica"</u> , on road from Alta Cima to San José |
| | 4565-4569 | <u>P. scandens</u> , " " |
| | 4570-4575 | San José, Reserva de la Biosfera El Cielo |
| | 4576-4577 | view E from road from Alta Cima to CIE |
| 8/3/10 | 4578-4591 | baby jaguar, CIE |
| | 4592-4601 | Cueva de la Salamandra, El Cielo |
| | 4602 | second cave visited, Rancho El Cielo |
| | 4603-4604 | entrance to Cueva del Cristal, Rancho El Cielo |
| | 4605-4606 | scarab, " " |
| 8/4/10 | 4608-4640 | SMR1223, <u>P. scandens</u> |
| | 4641-4649 | SMR1218, <u>P. "cephalica"</u> |
| | 4651-4695 | SMR1224, <u>Chiropterotriton</u> |
| | 4696-4702 | Rancho El Cielo |
| | 4707-4709 | cloud forest on road down from Rancho El Cielo |
| | 4710-4714 | Cueva ~~del Cristal~~ ^{Cueva} , El Cielo |
| 8/5/10 | 4718-4721 | oak woodland E of Ciudad del Maíz |
| 8/6/10 | 4723-4739 | SMR1235, <u>Chiropterotriton</u> |
| | 4740-4753 | SMR1212, <u>Chiropterotriton</u> |
| | 4754-4772 | SMR1237, <u>Chiropterotriton multidentatus</u> |
| | 4773-4783 | SMR1217, <u>Elentherodactylus (Synchodus) cystignathodes</u> |
| | 4784 | SMR1235, ventral view |
| | 4786 | SMR1212, ventral view |
| | 4787 | SMR1224, ventral view |
| 8/7/10 | 4791-4795 | SMR1218, <u>P. "cephalica"</u> , ventral + dorsal |

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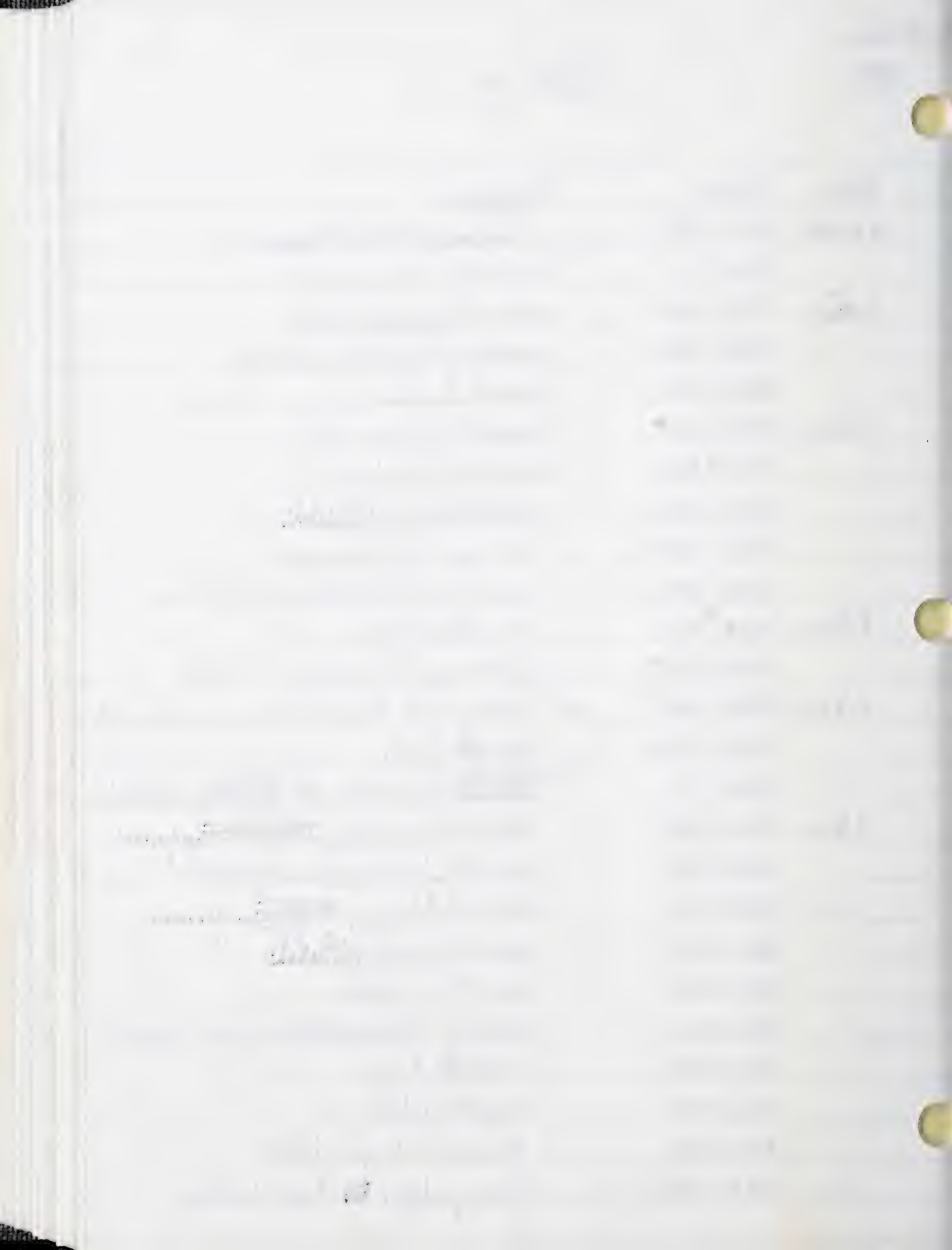
Photo log

| <u>Date</u> | <u>Photo #</u> | <u>Description</u> |
|-------------|----------------|--|
| 8/10/10 | 4796-97 | SMR1272, <u>Eleutherodactylus lepus</u> |
| | 4798-4801 | SMR1264, <u>Craugastor giffredi</u> |
| | 4802, 4806 | SMR1273, <u>C. rhodopsis</u> |
| | 4807-10 | SMR1269, <u>C. berkenbuschi</u> |
| | 4811-4817 | SMR1263, <u>Dendropsophus microcephalus</u> |
| | 4818-4831 | SMR1258, <u>Gastrophryne wita</u> |
| | 4832-4836 | SMR1259, <u>Scinax stautferi</u> |
| | 4838-4839 | SMR1253, <u>Engystomops pustulosus</u> |
| | 4840-4841 | SMR1261, <u>Lepidophyma tuxtlae</u> |
| | 4843-4847 | SMR1260, <u>Thamnophis proximus</u> |
| | 4848-4850 | SMR1276, <u>Imantodes cerbera</u> |
| | 4851-4858 | SMR1275, <u>Coleonyx elegans</u> |
| | 4860-4871 | SMR1270, <u>Corytophanes hernandezii</u> |
| | 4872-4875 | SMR1271, <u>Anolis ~~trapidonatus~~ compressicaudus</u> |
| 8/11/10 | 4881-4884 | SMR1280, <u>Rana maculata</u> |
| | 4885-4886 | SMR1292, <u>Anolis barkeri</u> |
| | 4888-4894 | SMR1283, <u>Bolitoglossa rufescens</u> |
| 8/12/10 | 4895-4903 | SMR1296, <u>Dermophis mexicanus</u> |
| | 4904-4907 | SMR1297, <u>Ameiva undulata</u> |
| | 4908-4918 | SMR1299, <u>Bolitoglossa alberchi</u> |
| | 4919-4926 | habitat near La Fortaleza |
| | 4927-4930 | SMR1310, <u>Bufo macracristatus</u> |

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Photo Log

| <u>Date</u> | <u>Photo #</u> | <u>Description</u> |
|-------------|----------------|---|
| 8/19/10 | 4931-4935 | La Encarnación, PN Los Marmoles |
| | 4936 | Forest near La Encarnación |
| 8/19/10 | 4939-4949 | SMR1311, <u>Pseudoeurycea cephalica</u> |
| | 4950-4965 | SMR1321, <u>Chiropterotriton chondrostega</u> |
| | 4966-4978 | SMR1312, <u>P. cephalica</u> |
| 8/20/10 | 4979-4996 | SMR1323, <u>Pseudoeurycea bellii</u> |
| | 4997-5013 | SMR1325, <u>C. chondrostega</u> |
| | 5014-5016 | SMR1324, <u>Geophis latifrontalis</u> |
| | 5017-5019 | Forest near La Encarnación |
| | 5020-5021 | sign at Parador Santa Marta, W of El Lobo |
| 8/21/10 | 5022-5044 | Las Pozas, Xilitla |
| | 5045-5048 | habitat around La Trinidad, W of Xilitla |
| 8/22/10 | 5049-5050 | oak habitat on road to Microondas la Pingüica, <u>P. cephalica</u> site |
| | 5052-5068 | SMR13 ³¹ ~~11~~ , <u>P. bellii</u> |
| | 5070 | La Trinidad, ~~SMR1311~~ , <u>Chiropterotriton</u> ~~multidentatus?~~ |
| 8/23/10 | 5072-5085 | SMR1346, <u>Chiropterotriton</u> ~~chondrostega~~ sp. nov. |
| | 5087-5103 | SMR1333, <u>Chiropterotriton multidentatus?</u> |
| | 5105-5112 | SMR1332, <u>Pseudoeurycea</u> ~~cephalica~~ sp. nov. |
| | 5114-5115 | SMR1339, <u>Geophis latifrontalis</u> |
| | 5116-5124 | SMR1340, <u>P. cephalica</u> |
| | 5125-5131 | SMR1328, <u>Eleutherodactylus</u> <u>Craugastor decoratus</u> |
| | 5132-5165 | SMR13 ³¹ ~~11~~ , <u>P. bellii</u> |
| | 5166-5169 | SMR1341, <u>P. bellii</u> juv. |
| | 5170-5183 | Microondas la Pingüica, habitat |
| | 5184-5192 | Sitio arqueológico ~~San~~ Ranas, Querétaro |



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Photo Log

| <u>Date</u> | <u>Photo #</u> | <u>Description</u> |
|-------------|----------------|--|
| 8/24/10 | 5194-5204 | SMR 1333, <u>Chiropterotriton</u> |
| | 5205-5209 | SMR 1332, <u>Pseudoeurycea</u> cf. <u>cephalica</u> |
| | 5210-5225 | SMR 1346, <u>Chiropterotriton</u> |
| 8/26/10 | 5226-5230 | SMR 1327, <u>Craugastor</u> <u>decoratus</u> |
| | 5231-5254 | SMR 1330, <u>P. bellii</u> |
| | 5255-5257 | SMR 1329, <u>P. bellii</u> |
| | 5258-5261 | L-R, SMR 1334-1336, <u>Chiropterotriton</u> sp. |
| | 5263-5264 | SMR 1332, <u>Pseudoeurycea</u> sp. |
| | 5265-5267 | SMR 1346, <u>Chiropterotriton</u> sp. "Pinguica" |
| 9/25/10 | 5281-5282 | forest, Asokaderg, Guerrero |
| | 5283-5300 | <u>Thorius omiltemi</u> , TJD 749 |
| | 5301-5307 | <u>Syrrophus</u> , TJD 737 |
| | 5308-5315 | <u>Craugastor</u> , TJD 748 |
| | 5316-5323 | <u>Dendropsophus</u> , TJD 733 |
| | 5324-5327 | <u>Leptodactylus</u> , TJD 732 |
| | 5328-5337 | <u>Pachymedusa</u> <u>dachnycolor</u> , TJD 736 |
| | 5338-5341 | <u>Barisia</u> , TJD 738 |
| | 5342-5343 | <u>Sceloporus</u> , TJD 747 |
| | 5344-5345 | <u>Phyllodactylus</u> , TJD 728 |
| | 5347-5350 | <u>Anolis</u> , TJD 734 or 735 |
| 9/27/10 | 5351-5352 | Tom working above Puerto del Gallo |
| | 5353-5356 | landscape above Puerto del Gallo |
| | 5357-5358 | forest where SMR 1352 (<u>Thorius grandis</u>) found |
| | 5359-5360 | site where 1st <u>Pseudoeurycea</u> (SMR 1351) found |
| | 5361-5364 | crest of Puerto del Gallo - Carrizal de Bravos road,
S side of Cerro Teatepec |



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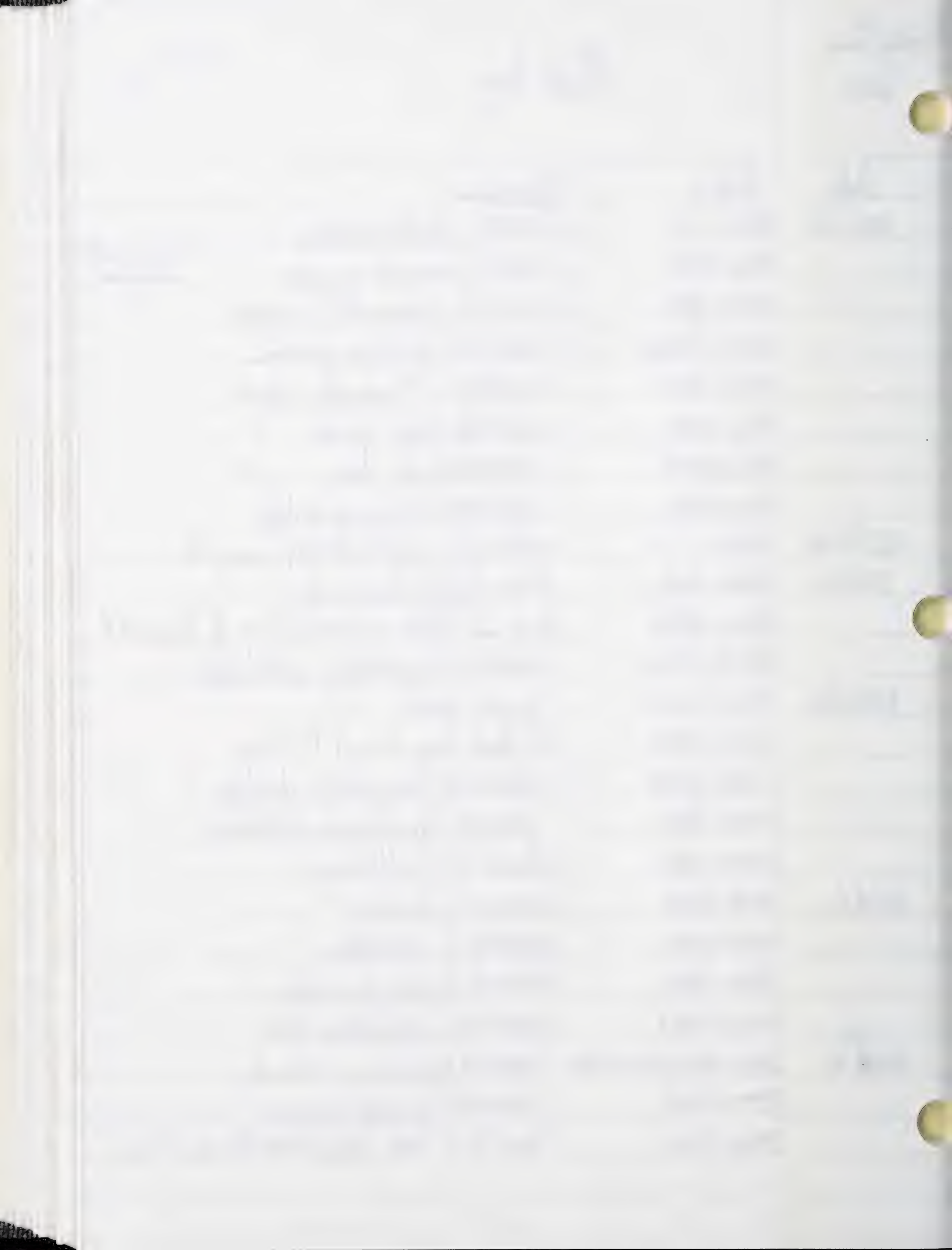
| Date | Photo # | Description |
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| 9/27/10 | 5365-5389 | SMR1360, <u>Pseudoeurycea Hahcuiloh</u> , at site of capture |
| | 5391-5399 | SMR1360 ² , " |
| 9/28/10 | 5400-5414 | SMR1351, <u>Pseudoeurycea</u> |
| | 5415-5428 | SMR1354, <u>Thorius grandis</u> |
| | 5429-5442 | SMR1360 ¹ , <u>P. hahcuiloh</u> |
| | 5443-5450 | TJD 753, <u>Plectrohyla bistrincta</u> |
| | 5452-5455 | SMR1360 ² , <u>P. Hahcuiloh</u> |
| | 5456-5458 | Puerto del Gallo |
| | 5459-5460 | SMR1361, <u>P. hahcuiloh</u> , ventral |
| | 5461-5462 | SMR1351, <u>P. hahcuiloh</u> ?, ventral |
| | 5463-5467 | Puerto del Gallo + surrounding area |
| | 5468-5469 | on road from Puerto del Gallo to El Paraíso |
| 9/29/10 | 5470-5471 | on road from Mazatlán to Tejacote |
| | 5472-5475 | above El Tejacote |
| | 5478-5485 | <u>Plectrohyla mykter</u> , waterfall above El Tejacote |
| 10/1/10 | 5486-5495 | TJD 772, <u>Eleutherodactylus (Syrrophus) albolebris</u> |
| | 5496-5503 | TJD 775, <u>E. (Syrrophus) dilatatus</u> |
| | 5504-5507 | TJD 763, <u>Bufo</u> |
| | 5510-5520 | TJD 766, <u>Hyalinobatrachium fleischmanni</u> |
| | 5523-5526 | TJD 767, <u>E. (Syrrophus)</u> brown |
| | 5527-5531 | TJD 768, <u>E. (Syrrophus)</u> green |
| | 5532-5542 | TJD 782, <u>Plectrohyla mykter</u> |
| | 5543-5555 | TJD 770, <u>Eleutherodactylus Crangator (Hylactophryne) angust.</u> |
| | 5556-5565 | TJD 765, |
| | 5566-5573 | TJD 780, <u>Crangator</u> |
| | 5574-5579 | TJD 777, <u>C. (Hylactophryne) angust.</u> |



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| <u>Date</u> | <u>Photo #</u> | <u>Description</u> | |
|-------------|----------------------|---|-----------------------------|
| 10/1/10 | 5580 | TJD771, <u>Smilisca baudinii</u> | |
| | 5581-5583 | TJD773, <u>Craugastor pygmaeus</u> | escaped while photographing |
| | 5584-5592 | TJD769, <u>Lampropeltis triangulum</u> | |
| | 5593-5606 | TJD774, <u>Manolepis putnami</u> | |
| | 5607-5610 | TJD758, <u>Thamnophis cyrtopsis</u> | |
| | 5612, 5615 | TJD784, <u>Anolis liogaster</u> ♀ | |
| | 5616, 5617 | TJD764, <u>Anolis dumi</u> ♂ | |
| | 5618-5621 | TJD779, <u>Sceloporus scutellus</u> | |
| 10/15/10 | 5687 | oak forest on road to Xichú, Guanajuato | |
| 10/16/10 | 5688-5689 | Dolores Hidalgo, Guanajuato | |
| | 5690-5693 | forest and habitat near km 68, Sierra de Alvarez, SLP | |
| | 5694-5734 | SMR1364, <u>Chiropterotriton multidentatus</u> | |
| 10/17/10 | 5739-5751 | San Luis Potosí | |
| | 5752-5755 | Fir forest, Parque Nacional El Chico | |
| | 5760-5784 | SMR1367, <u>Chiropterotriton dimidiatus</u> | |
| | 5786-5808 | SMR1364, <u>Chiropterotriton multidentatus</u> | |
| | 5809-5824 | Mineral del Chico, Hidalgo | |
| 10/18/10 | 5825-5843 | SMR1367, <u>C. dimidiatus</u> | |
| | 5845-5852 | SMR1364, <u>C. multidentatus</u> | |
| | 5853-5860 | SMR1368, <u>Pseudoeurycea cephalica</u> | |
| | 5863-5867 | SMR1364, <u>C. multidentatus</u> , ventral | |
| 10/23/10 | 5870-5889, 5903-5929 | SMR1374, <u>Pseudoeurycea ruficauda</u> | |
| | 5890-5897 | SMR1372, <u>Craugastor mexicanus</u> | |
| | 5900-5901 | forest S of Puerto Soledad, Sierra Mazateca, Oaxaca | |



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Photo log

| Date | Photo # | Description |
|----------|--------------------|---|
| 10/25/10 | 5933-5942 | SMR1381, <u>Pseudoeurycea</u> cf <u>welleri</u> |
| 10/26/10 | 5944-5973, 5979-84 | " " |
| | 5974-5978 | SMR1379, <u>Craugastor</u> |
| | 5987-6000 | SMR1398, <u>Pseudoeurycea</u> |
| | 6001-6011 | SMR1399, ~~Ecnomichthys~~ <u>Charadrahyla</u> <u>nephila</u> |
| | 6013-6017 | site 10.3 Km (rd) from Valle Nacional where <u>Bolitoglossa</u> sp. found |
| | 6018-6025 | SMR1401, <u>Bolitoglossa</u> sp. "Vista Hermosa" |
| | 6027-6029 | " " w/ SMR1405, <u>B. rufescens</u> |
| | 6030-6032 | SMR1405, <u>B. rufescens</u> |
| | 6035-6041 | SMR1398, <u>Pseudoeurycea</u> sp. (saltator?), ventral |
| 10/27/10 | 6042-6053 | SMR1399, ~~Charadrahyla~~ <u>Charadrahyla</u> <u>nephila</u> |
| | 6054-6062 | SMR1401, <u>B.</u> sp. "Vista Hermosa" |
| | 6063-6067 | " " , ventral |
| | 6068-6074 | SMR1407, <u>Thorius</u> <u>arboreus</u> |
| | 6075-6083 | SMR1408, <u>T. arboreus</u> |
| | 6084-6088 | SMR1409, <u>T. arboreus</u> |
| | 6089-6094 | SMR1410, <u>T. arboreus</u> |
| | 6095-6099 | SMR1411, <u>P. saltator</u> |
| | 6100-6168 | SMR1420, <u>Thorius</u> <u>smithi</u> |
| 10/28/10 | 6169-6177 | SMR1421, <u>Thorius</u> |
| | 6178-6188 | SMR1422, <u>Abronia</u> |
| | 6189-6191 | SMR1423, <u>Sceloporus</u> |
| | 6192-6194 | habitat, Llano de las Flores |
| | 6195-6220 | Mitla |
| 11/04/10 | 6295-6302 | LCM1319, <u>Chirotetratriton</u> , Puebla |
| | 6303-6308 | LCM1308, " " |
| | 6309-6316 | LCM 1316, <u>Pseudoeurycea</u> <u>cephalica</u> , Puebla |

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| 1986 | 1987 | 1988 |
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| 1992 | 1993 | 1994 |
| 1995 | 1996 | 1997 |
| 1998 | 1999 | 2000 |

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Rovito, Sean
2010

Photo log

| <u>Date</u> | <u>Photo #</u> | <u>Description</u> |
|-------------|----------------|--|
| 11/15/10 | G317-G336 | <u>Bolitoglossa chinanteca</u> , holotype |
| 11/19/10 | G337-G348 | Cuetzalan |
| | G349-G356 | ruins of Yohualichán |
| | G357-G358 | habitat near Yohualichán, where <u>Chiro</u> found |
| | G362-G381 | SMR1425, <u>Chiropterotriton</u> sp., Cuetzalan |
| 11/20/10 | G382-G390 | summit of Cofre de Perote |
| | G391-G410 | SMR1434, <u>Chiropterotriton</u> larvae |
| | G412-G413 | habitat where <u>Chiropterotriton</u> found, La Joya |
| 11/21/10 | G414-G430 | SMR1425, <u>Chiropterotriton</u> sp., Cuetzalan |
| | G431-G441 | SMR1434, <u>C. larvae</u> |
| | G442-G445 | SMR1435, <u>C. larvae</u> |
| | G446-G459 | SMR1429, <u>Thorius munificus</u> |
| | G460-G464 | SMR1428, <u>Pseudoeurycea cephalica</u> |
| | G465-G468 | SMR1439, <u>Pseudoeurycea leprosa</u> |
| | G469-G472 | SMR1426, <u>Craugastor loki</u> |
| | G473-G479 | SMR1424 |
| | G480-G482 | SMR1438, ~~MAAANA~~ <u>Scincella gemmingeri</u> |
| | G484 | SMR1427, <u>Sceloporus grammicus</u> |
| | G485 | habitat along road, Las Lajas |
| | G486-G488 | view of Cofre de Perote from Las Lajas |
| | G490-G492 | SMR1425, <u>Chiropterotriton</u> sp., ventral |



